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ABSTRACT

The sixth statewide survey of school principals (1,094) and district superintendents (92) was conducted in April 1989 by the South Carolina State Department of Education Office of Instructional Technology with response rates of 99% and 100% respectively. This report uses tables, charts, and graphs to illustrate the results of the survey and provide information on trends and other descriptive statistics to assist educators with decision-making in the use of technology. Information provided includes the findings of a computer equipment and software inventory and data on such issues as the instructional and administrative uses of computers, computer literacy programs in the schools, and the availability and use of SEED (Software Evaluation Exchange Dissemination) software reviews and a BSAP (Basic Skills Assessment Program)-correlated listing of recommended software. Also provided is a brief review of several special computer projects. Each entry includes, in addition to a project description, information on the name of the firm, brand, or project; the contact person's name, address, and telephone number; placement and use of computers and software; future plans; and student gains resulting from the project. (GL)

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Report on 1988-89

STATEWIDE COMPUTER SURVEY

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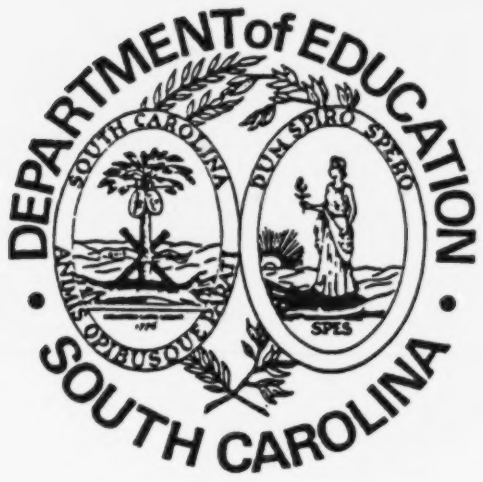
1988-89 STATEWIDE COMPUTER SURVEY REPORT



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INTRODUCTION

The 1988-89 Computer Survey is the sixth statewide survey conducted by the Office of Instructional Technology, State Department of Education. This survey was conducted in April, 1989.

Tables, charts and graphs are provided to illustrate results of the 1988-89 statewide survey. Trends and other descriptive statistics are provided to assist educators with decision-making in the use of technology.

SURVEY DESIGN

The questionnaire inventoried computer equipment and software, and dealt with such issues as the instructional and administrative uses of computers, and availability and use of SEED (Software Evaluation Exchange Dissemination) software reviews and a BSAP-correlated listing of recommended software. A seven-question school form and a five-question district form, as well as computer equipment forms were distributed to all South Carolina public school principals and district superintendents.

RESPONSE RATE

A total of 1,094 school and 92 district forms were received for response rates of 99 percent and 100 percent, respectively.

SURVEY HIGHLIGHTS

Major findings of the survey include the following:

Districts

- All school district offices had computers.
- 43 percent of the total computers used at the district level were Apple computers.
- The total rate of change in the number of computers at the district level was 180 percent in 1985, 83 percent in 1986, 61 percent in 1987, and 28 percent in 1988.
- The largest percentage (44 percent) change in the number of computers used belonged to Apple.
- 7 percent of all printers were of the laser type.

Schools

- Over 98 percent of public schools had computers for either instructional or administrative use.
- Over 98 percent of the schools having at least one computer (1,089), had at least one printer (1,071).
- 57 percent of school faculty members were rated as being computer literate by their principals.
- The computer-student ratio for all computers dropped by 19 percent, from 1:21 to 1:17, from 1987 to 1988.
- The rate of growth in the total number of computers has slowed down slightly over the past two years (from 24 percent in 1987 to 23 percent in 1988).
- IBM continued at the school level as the second largest computer supplier to schools. The largest rate of change in the number of computers belonged to CCC (plus 54 percent over last year).
- The percent of responding schools (734) using BSAP software correlation books was 73 percent in 1988.
- The percent of responding school district offices (82) using BSAP software correlation books was 51 percent.
- Schools indicated that the rate of computer literate certified faculty increased 45 percent, 51 percent, and 57 percent during 1986, 1987, and 1988 respectively.

SURVEY RESULTS

I. April 1989 Computer Equipment Inventory

A. District Office Survey of Computers and Printers

1. Computers

A total of 2,474 computers, comprising over 34 brands, and 1,498 printers were located in school district offices. The number of computers reported by the districts is provided in the table below.

Year	Number of Computers	Number of Districts
1988-89	2,474	93
1987-88	1,931	92
1986-87	1,199	92
1985-86	656	92
1984-85	234	88
1983-84	323	73

The top four computer brands in school district offices, their quantities and percentage change over last year are listed below.

1988 Computer Survey of School District Offices

Brand of Computer				Percent of All Computers			Percent Change		
	1988	1987	1986	1988	1987	1986	1988	1987	1986
Apple	1,072	743	526	43.3	38.5	43.8	44	41	81
IBM	772	559	343	31.2	29.0	28.6	38	63	49
Radio Shack	81	77	79	3.3	4.0	6.6	5	-3	55
NCR	242	170	98	9.8	8.8	8.2	42	73	880
Other	307	382	153	12.4	19.7	6.3	-20	150	109
Total	2,474	1,931	1,199	100	100	100	28	61	83

The Apple brand computer had the highest percentage (43.3) of school district inventory.

2. Printers

The breakdown of printers is illustrated by the following chart and table.

Type of Printer	Total	Percentage of Total
Dot Matrix	884	59
Letter Quality	420	28
Laser	105	7
Other	89	6
Total	1,498	100

Fifty-nine percent of the printers were dot matrix. Table 1 on page 10 illustrates that over 43 percent of the districts had 10 or more printers.

B. School Survey of Computers and Printers

1. Computers

The number of schools having computers has increased substantially over the past five years. Over the past two years, the total number of computers in schools increased from 29,766 to 36,599, a 22.95 percent increase.

Number of Schools with Computers and Total Computers

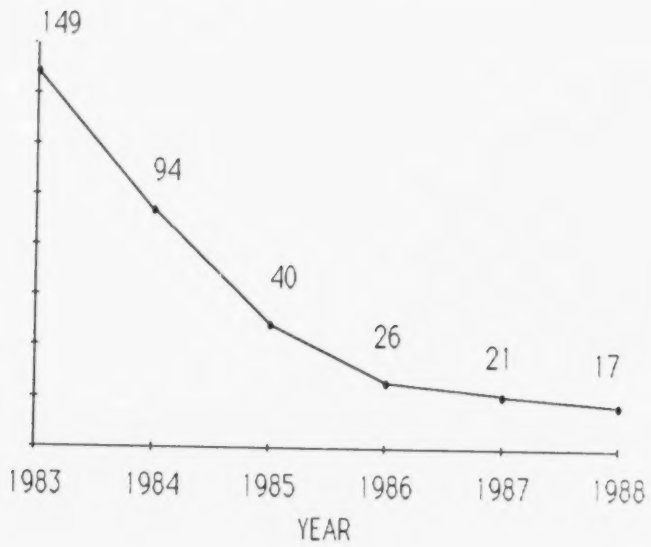
Years	Number of Schools with Computers	Percent Change Over Last Year	Total Number of Computers	Percent Change Over Last Year
1988-89	1,089	1.40	36,599	22.95
1987-88	1,074	1.26	29,766	23.81
1986-87	1,061	- 0.09	24,041	60.71
1985-86	1,062	17.09	14,959	133.73
1984-85	907	21.10	6,400	57.87
1983-84	749	--	4,054	--

The number of computers to students ratio reported by schools is illustrated in the following table. The ratio for computers used in grades K-12 for instruction improved to 1:21, compared to the past year's ratio of 1:25. This ratio has been decreasing steadily over the past five years. See the following table and graph.

Ratio of Computers to Students

	1988-89	1987-88	1986-87
Total Computers*			
Grades K-12	1:17	1:21	1:26
Grades K-7	1:20	1:25	1:44
Grades 8-12	1:14	1:17	1:16
Instructionally-Used Computers			
Grades K-12	1:21	1:25	1:30
Grades K-7	1:24	1:29	1:48
Grades 8-12	1:17	1:20	1:18
180-Day Student Enrollment			
Grades K-12	633,345	632,044	626,521
Grades K-7	406,453	398,489	390,287
Grades 8-12	226,892	233,555	236,234

1983-1988 COMPUTER-TO-STUDENTS RATIO
(Grades K-12 For Total Computers)



** Total computers includes those used for administration and instruction.*

The number of computers used in the schools by major brand, percent of all computers, and percent change over last year are given in the table below.

Top Five Computer Brands Used in Schools

Brands of Computers				Percent of All Computers			Percent Change		
	1988	1987	1986	1988	1987	1986	1988	1987	1985
Apple	20,833	17,386	14,686	57.0	58.4	61.1	20	18	69
IBM	6,726	4,933	3,574	18.0	16.5	14.9	36	38	161
Radio Shack	2,371	2,381	2,071	7.0	8.0	8.6	- 4	15	14
Atari	1,422	984	494	4.0	3.3	2.1	45	99	81
CCC	1,079	699	423	3.0	2.4	1.5	54	65	2
Other	4,168	3,383	2,793	11.0	11.4	11.6	23	37	20
Total	36,599	29,766	24,041	100	100	100	23	24	61

The Apple brand of PCs persisted in having the largest share of schools' computer equipment (57 percent). CCC had the largest jump from last year (it increased 54 percent). The overall rate of increase in computers has slowed down somewhat in comparison to last year (23 percent, down from 24 percent). Table 2 on page 11 shows the number of computers, brand/model and their designated use in schools. Table 3 on page 12 shows that .5 percent of the schools had one computer. Furthermore, 63 percent of the schools with computers had 21 or more computers.

2. Printers

Printers are subdivided into four broad categories. The distribution of the printers is illustrated as follows:

Printer Type	Quantity 1988	Quantity 1987	Percent of Total 1988	Percent of Total 1987
Dot Matrix	8,866	7,141	76.8	79.6
Letter Quality	1,714	1,142	14.8	12.7
Laser	136	93	1.2	1.0
Other	837	590	7.2	6.6
Total	11,553	8,966	100	100

Seventy-seven percent of all printers were dot matrix. Table 4 on page 12 shows the distribution and use of printers in the schools. Table 5 on page 13 illustrates the frequency distribution of the schools' printers. Only two percent of the schools had one printer, and 37 percent of the schools had 10 or more.

II. Instructional and Administrative Uses, Hardware, Software, and Funding

A. District Office Computer Survey

Ninety-one school districts reported having at least one computer. Other technologies, such as videodisc and data communications were in use in 11 percent and 53 percent of the districts, respectively. At the district office level, over 48 percent of all computers and over 67 percent of all printers were allocated to administrative use at the district level.

1. Technologies Used in Education

District Computer Survey

(Total Districts Responding: 92)
Total Yes (Percent)

Technology Use	1988	1987
Microcomputers	91 (98%)	92 (100%)
Videodiscs	10 (11%)	6 (7%)
Data Communications	49 (53%)	23 (27%)

2. Reference Sources for Instructional Software Purchased by School District Office

Computer consultants and other school district administrative office staff purchased software frequently using as references the BSAP-correlated software listings and SEED Reviews distributed by ITEC (Office of Instructional Technology). A majority of school districts now use the BSAP software reference source and the SEED Reviews in software purchase decisions as indicated by the following two tables.

Table i-1

Number of School Districts Acquiring Software Using the Software/BSAP Correlation Books (82 Districts Responded)

Subject	Total Percent (A & B)	A To A Large Extent	B To Some Extent	C Not At All
Language Arts	66	10	51	21
Mathematics	69	11	53	18
Science	60	5	51	22
Other Reference	44	7	34	27

Table i-2

Use of SEED Software Reviews by School Districts

Questions	Total Yes	Total No	Percent Yes
Did your district receive copies of the SEED Project Software Reviews?	88	5	95%
Do you have access to a copy of the SEED Reviews?	87	6	94%
Has anyone used the SEED Software Reviews in selecting software?	52	41	56%

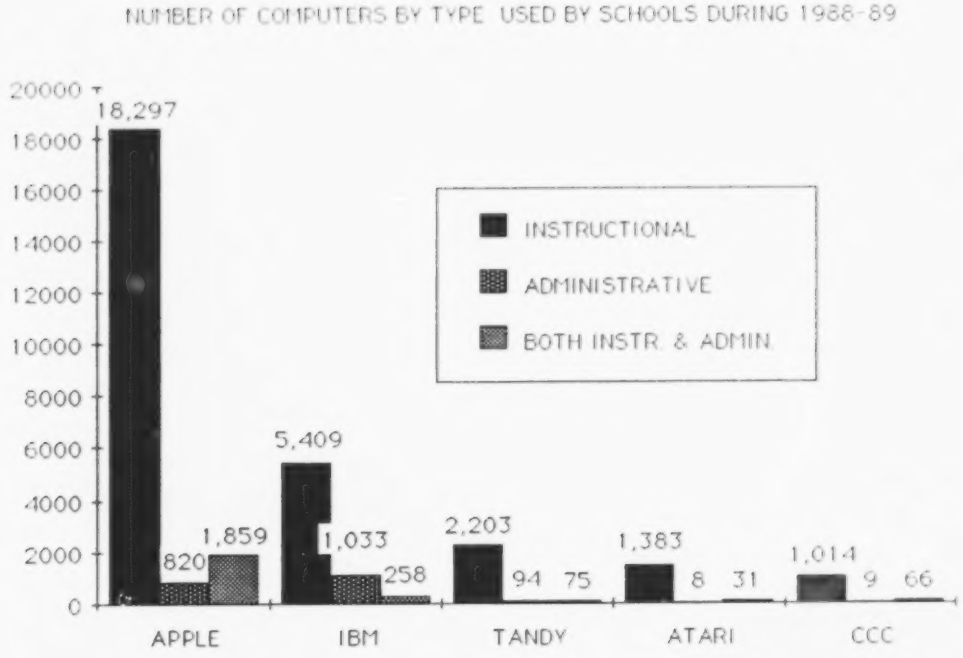
B. School Computer Survey

Almost all schools (98 percent) had at least one microcomputer. The vast majority are used for instructional purposes (84 percent of all computers). Other technologies such as data communications were used in fourteen percent of schools, videodiscs in eight percent, and robotics in four percent.

1. Technologies Used in Education

School Computer Survey
(Total Schools Responding: 1,094)

	Number of Schools Responding Yes			
Technology Use	1988-89	Percent Yes	1987-88	Percent Yes
Microcomputers	1,077	(98%)	1,041	(97%)
Robotics	44	(4%)	29	(3%)
Videodiscs	87	(8%)	72	(7%)
Data Communications	154	(14%)	98	(19%)



2. Staff Development

The number of school faculty considered to be computer literate has risen substantially, from 37 percent three years ago to 57 percent this year. Thirty-nine percent of school faculty members now use microcomputers for instruction.

	1988	1987	1986	1985
1. Number of computer-literate certified faculty. *(from total of 338,112 in Fall 1988 Reference: Selected Facts by MIS S.C.D.E.)*	21,860 (57%)	19,369 (51%)	17,743 (45%)	13,497 (37%)
2. Number of faculty members who use computers for instruction. *(from total of 38,112 in Fall 1988 Reference: Selected Facts by MIS S.C.D.E.)*	14,837 (39%)	13,104 (35%)	11,278 (29%)	——

References for Acquiring Software

1. Use of BSAP Software Correlation Books

Microcomputer software/BSAP correlation books have been published by the Office of Instructional Technology (ITEC) since May 1984. They serve as a reference on available software programs that address specific objectives for students in grades 1-8 in three BSAP curriculum areas -- language arts, mathematics and science. The software/BSAP correlation books provide a consolidated, yearly updated listing of recommended microcomputer software programs available in the software market. For further information contact: ITEC, State Department of Education, Columbia, South Carolina 29201.

The data in Table i-4 is derived from Table i-3. Table i-4 indicates that the largest use of the software/ BSAP correlation books was in acquiring mathematics software (73.3 percent of the respondents). The use of this publication in science software selection increased from 56 to 61 percent over last year. The number of schools using BSAP correlation books in science increased from 505 to 578 over last year.

Table i-3

Number of Schools Acquiring Software Using the Software/BSAP Correlation Books

Subject	Total	To a Large Extent	To Some Extent	Not At All
Language Arts	995 (100%)	186 (18.6%)	527 (53.0%)	282 (28.3%)
Mathematics	1,002 (100%)	195 (18.7%)	539 (53.8%)	268 (26.7%)
Science	943 (100%)	111 (11.8%)	467 (44.1%)	365 (38.7%)

Note that only a maximum of 1,002 (90.4%) schools answered this item in the questionaire.

Table i-4

Summary Data on Number of Schools Using BSAP Book in Acquiring Software

Subject	From Some to a Large Extent 1988-89	1987-88	1986-87
Language Arts	713 (71.7%)	700 (71.7%)	467 (67.3%)
Mathematics	734 (73.3%)	706 (72.3%)	483 (69.4%)
Science	578 (61.3%)	505 (55.7%)	283 (47.3%)

2. Use of SEED Project Reviews as a Software Reference

The Software Evaluation Exchange Dissemination (SEED) Project is a collaborative effort coordinated by the Southeastern Educational Improvement Laboratory (SEIL) and the state departments of education in Alabama, Florida, Georgia, Mississippi, New Jersey, North Carolina, and South Carolina. The SEED software evaluation process has been designed and implemented by staff members of participating state education agencies.

Beginning in September 1985, each state selected and trained educators as software reviewers for the evaluation of K-12 instructional software using a standard SEED evaluation form and process. Each title is evaluated by three persons from which a single review or annotation is compiled. A total of 582 SEED Software Annotations had been provided by May 1989 to superintendents, computer coordinators, principals, and media specialists.

From a total 1,094 schools responding to the current survey, 991 indicated that they received the SEED Project Software Reviews (PSR) and 997 schools revealed that they had access to a copy. Another 668 (61 percent) of those who had access to SEED-PSR actually used it in selecting software.

Use of SEED Software Reviews by Schools

Questions	Total Yes	Total No	Percent Yes
Did your school receive copies of the SEED Project Software Reviews?	991	103	91%
Do you have access to a copy of the SEED Reviews?	997	97	91%
Has anyone used the SEED Software Reviews in selecting software?	668	426	61%

Table 1

Frequency of Computer and Printer Units in Districts in 1988-89

Number of Computers and Printers	Number of Districts with Computers	Number of Districts with Printers
1	3	3
2	7	8
3	4	4
4	5	6
5	9	11
6	4	9
7	7	4
8	1	3
9	5	5
10	4	4
11	2	1
12	2	6
13	2	1
14	3	0
15	3	1
16	2	4
17	1	2
18	1	2
19	1	1
20	1	1
21 +	26	17
Total Districts	93	93
Districts with 10 or more computers or printers:	48 (52%)	40 (43%)

Table 2

REPORT OF THE USE OF COMPUTERS IN SCHOOLS LISTED BY USE AND BRAND-MODEL

COMPUTER BRAND MODEL	TOTAL QTY.	INSTRUCTIONAL QTY.	DISTS.	SCHS.	ADMINISTRATIVE QTY.	DISTS.	SCHS.	INSTR. & ADMIN. QTY.	DISTS.	SCHS.
APPLE(II, II+, IIC)	18,326	16,187	111	980	678	46	371	1,600	42	327
APPLE (III, Mac. or etc.)	318	181	26	64	48	15	38	89	14	26
APPLE (IIgs)	2,189	1,929	70	362	94	13	67	170	14	89
ATARI (400,600, etc.)	535	528	24	65	2	2	2	5	3	4
ATARI ST	887	855	20	55	6	1	6	26	1	2
BURROUGHS	8	1	1	1	0	0	0	7	1	1
CCC (SLS-1)	1,079	1,014	23	93	9	7	9	66	5	8
COMMODORE	777	756	43	120	8	2	7	13	3	9
DIGITAL	88	43	22	29	17	12	16	28	12	14
FRANKLIN	36	30	9	12	3	1	3	10	2	2
HAYES	1	1	1	1	0	0	0	0	0	0
IBM (34,36,38)	307	235	13	21	53	13	23	8	6	6
IBM DISPLAY	66	50	6	9	14	5	11	2	2	2
IBM PC	3,100	2,453	49	154	497	48	276	130	10	45
IBM PC JR	1,025	983	39	107	30	9	13	13	0	8
IBM PS/2	2,228	1,688	35	115	439	46	185	105	12	30
KAYPRO	21	21	1	1	0	0	0	0	0	0
LANIER	116	96	9	12	0	0	0	20	1	1
LASER (128, EX)	161	150	26	37	2	2	2	9	3	6
LEADING EDGE	94	52	9	11	27	10	18	15	4	5
MONROE	19	15	2	2	4	4	4	0	0	0
NCR	982	82	8	37	830	85	517	71	10	33
NEC	4	3	1	1	1	1	1	0	0	0
NIDORF	6	0	0	0	2	2	2	4	1	1
SCOIS	1	1	1	1	0	0	0	0	0	0
SOFTEK	99	58	5	9	40	8	14	1	1	1
SONY	15	13	4	4	2	1	1	0	0	0
SPERRY	27	2	1	2	24	11	20	1	1	1
TANDY (1,000, etc.)	842	726	36	74	59	18	38	58	7	15
TELEVIDEO	4	4	1	1	0	0	0	0	0	0
TI	348	308	31	68	6	1	2	2	0	1
TRS-80 (I-IV)	1,252	1,206	63	158	31	10	18	15	7	13
TRS-80 COLOR	277	271	22	44	4	4	4	2	1	2
WICAT	122	120	2	4	2	1	2	0	0	0
XEROX	63	41	2	2	4	2	2	18	2	2
ZENITH	144	114	13	15	24	5	7	7	3	3
OTHER IBM COMP.	874	427	37	62	363	47	129	84	14	22
OTHER APPLE COMP.	158	140	19	25	18	5	7	0	0	0
	36,599*	30,784*			3,341*			2,579*		

**Note: A few schools entered the same equipment items in more than one column.*

Table 3

FREQUENCY OF COMPUTER UNITS IN K-12 SCHOOLS

Quantity of Computers in Schools	Number of Schools with Computers				Percent of Schools with Computer Quantities			
	1988	1987	1986	1985	1988	1987	1986	1985
1	5	101	69	177	.5%	9.4%	6.5%	17%
2	4	53	49	104	.4%	5.2%	4.6%	10%
3	11	50	62	90	1.0%	4.6%	5.8%	8%
4	12	42	53	76	1.1%	3.9%	5.0%	7%
5	15	38	48	61	1.4%	3.5%	4.5%	6%
6	3	47	51	61	.3%	4.4%	4.8%	6%
7	19	40	47	52	1.7%	3.7%	4.4%	5%
8	21	47	51	47	2.0%	4.4%	4.8%	4%
9	18	37	49	39	1.6%	3.4%	4.6%	4%
10	15	35	36	44	1.4%	3.2%	3.4%	4%
11	39	34	26	40	3.6%	3.1%	2.5%	4%
12	19	48	39	29	1.7%	4.5%	3.7%	3%
13	18	33	37	20	1.6%	3.1%	3.5%	2%
14	24	33	38	20	2.2%	3.1%	3.6%	2%
15	22	31	30	26	2.0%	2.9%	2.8%	2%
16	31	27	31	24	2.8%	2.5%	2.9%	2%
17	30	23	34	22	2.8%	2.1%	3.2%	2%
18	37	23	28	17	3.4%	2.1%	2.6%	2%
19	34	25	21	9	3.1%	2.3%	2.1%	0%
20	25	20	15	21	2.3%	1.9%	1.4%	2%
21 +	687	287	247	83	63.1%	26.7%	23.3%	8%
Total Schools	1,089	1,074	1,061	1,062	100%	100%	100%	100%
Schools with 10 or more computers:	981	619	582	35				

Table 4

REPORT OF THE USE OF PRINTERS IN SCHOOLS LISTED BY USE AND BRAND-MODEL

COMPUTER BRAND MODEL	TOTAL QTY.	INSTRUCTIONAL QTY.	DISTS.	SCHS.	ADMINISTRATIVE QTY.	DISTS.	SCHS.	INSTR. & ADMIN. QTY.	DISTS.	SCHS.
DOT MATRIX	8,866	5,872	101	792	1,793	92	711	1,211	49	347
LASER	136	53	19	32	57	23	50	26	13	24
LTR. QUALITY	1,714	974	67	196	503	66	302	232	21	77
OTHER	837	528	59	150	192	43	123	118	18	41
TOTALS	11,553 *	7,427 *			2,545 *			1,587 *		

**Note: A few schools entered the same equipment items in more than one column.*

Table 5

FREQUENCY OF PRINTER UNITS IN K-12 SCHOOLS

Number of Printers in Schools	Number of Schools with Printers	Percent of Schools with Printers
1	17	1.6
2	71	6.6
3	108	10.1
4	102	9.5
5	105	9.8
6	85	7.9
7	73	6.8
8	52	4.9
9	58	5.4
10	51	4.8
11	34	3.2
12	31	2.9
13	31	2.9
14	28	2.6
15	20	1.9
16	10	.9
17	18	1.7
18	11	1.0
19	17	1.6
20	12	1.1
21+	137	12.8
Total Schools	1,071	100

Schools with 10 or more printers:	1988
(out of those schools reporting)	400 (37.3%)

Table 6

NUMBER OF ALL SCHOOLS WITH PRINTERS BY SCHOOL LEVEL

School Level	Number of Schools with Printers
Elementary	777
Secondary	247
Vocational	47
All Schools	1,071

III. Statewide Computer Equipment Report by District for 1988-89

COUNTY	AREA OR DIST.	NO. OF SCHOOLS	NO. OF COMPUTERS		NO. OF PRINTERS	
			DISTRICT	SCHOOLS	DISTRICT	SCHOOLS
ABBEVILLE	60	11	23	188	7	69
AIKEN	01	36	23	1,738	24	372
ALLENDALE	00	1	0	0	-	-
	01	4	7	232	6	63
ANDERSON	00	1	-	0	-	-
	01	12	11	312	5	62
	02	7	6	217	5	58
	03	4	6	216	5	35
	04	6	3	105	4	31
	05	17	18	672	13	216
BAMBERG	01	5	2	105	2	50
	02	3	4	108	4	29
BARNWELL	00	1	-	23	-	8
	19	3	4	72	4	21
	29	3	73	71	19	16
	45	4	2	108	2	47
BEAUFORT	00	1	-	42	-	17
	01	19	48	516	39	166
BERKELEY	01	36	47	1,517	31	413
CALHOUN	01	4	5	166	6	73
CHARLESTON	01	70	68	2,953	49	940
CHEROKEE	01	19	8	554	8	140
CHESTER	01	14	12	370	12	121
CHESTERFIELD	01	16	17	548	9	146

Statewide Computer Equipment Report by District for 1988-89, Continued

COUNTY	AREA OR DIST.	NO. OF SCHOOLS	NO. OF COMPUTERS DISTRICT	NO. OF COMPUTERS SCHOOLS	NO. OF PRINTERS DISTRICT	NO. OF PRINTERS SCHOOLS
CLARENDON	00	1	-	68	-	24
	01	3	3	57	4	8
	02	4	7	167	9	38
	03	2	4	62	5	19
COLLETON	01	14	5	348	3	82
DARLINGTON	01	26	834	785	335	304
DILLON	00	1	-	35	-	33
	01	3	1	66	1	18
	02	7	11	217	6	104
	03	3	7	89	7	17
DORCHESTER	00	1	-	63	-	30
	02	13	22	518	4	194
	04	6	5	153	5	61
EDGEFIELD	01	7	7	297	7	69
FAIRFIELD	01	9	14	255	12	76
FLORENCE	01	19	40	776	15	236
	02	3	5	93	4	33
	03	8	14	305	8	71
	04	4	4	83	5	23
	05	3	15	75	6	26
GEORGETOWN	01	18	57	584	33	122
GREENVILLE	01	92	51	2,408	57	916
GREENWOOD	00	1	-	29	-	9
	50	13	49	421	43	139

Statewide Computer Equipment Report by District for 1988-89, Continued

COUNTY	AREA OR DIST.	NO. OF SCHOOLS	NO. OF COMPUTERS		NO. OF PRINTERS	
			DISTRICT	SCHOOLS	DISTRICT	SCHOOLS
GREENWOOD	51	4	2	88	2	41
	52	3	5	60	6	28
HAMPTON	01	6	6	193	5	54
	02	3	7	161	6	55
HORRY	01	38	64	1,305	44	350
JASPER	01	3	9	112	11	27
KERSHAW	01	18	32	489	23	158
LANCASTER	01	22	20	527	18	214
LAURENS	55	9	32	298	17	73
	56	7	7	207	6	61
LEE	01	8	10	254	10	72
LEXINGTON	01	11	12	429	12	155
	02	16	55	474	30	242
	03	4	2	125	2	41
	04	5	14	86	6	12
	05	11	31	588	27	178
MCCORMICK	01	5	3	183	3	37
MARION	00	1	-	55	-	25
	01	5	9	141	9	47
	02	6	15	240	10	51
	03	3	3	52	3	18
	04	2	6	35	1	13
MARLBORO	01	16	10	376	6	99
NEWBERRY	01	17	16	234	16	72

Statewide Computer Equipment Report by District for 1988-89, Continued

COUNTY	AREA OR DIST.	NO. OF SCHOOLS	NO. OF COMPUTERS		NO. OF PRINTERS	
			DISTRICT	SCHOOLS	DISTRICT	SCHOOLS
OCONEE	01	24	31	753	16	180
ORANGEBURG	00	2	-	74	-	29
	01	4	2	108	2	32
	02	2	7	59	7	19
	03	8	5	199	5	47
	04	4	2	69	2	26
	05	12	36	800	37	176
	06	2	1	25	1	12
	07	2	5	50	5	12
	08	2	2	58	2	33
PICKENS	01	28	23	620	19	303
RICHLAND	01	51	140	2,018	79	771
	02	14	27	580	22	209
SALUDA	01	4	5	133	5	59
SPARTANBURG	00	3	-	166	-	64
	01	9	4	215	2	55
	02	10	21	314	16	105
	03	7	10	178	12	114
	04	4	5	124	5	43
	05	7	9	212	8	56
	06	14	9	431	12	130
	07	15	75	749	21	160
SUMTER	00	1	-	36	-	17
	02	14	19	369	12	111

Statewide Computer Equipment Report by District for 1988-89, Continued

COUNTY	AREA OR DIST.	NO. OF SCHOOLS	NO. OF COMPUTERS		NO. OF PRINTERS	
			DISTRICT	SCHOOLS	DISTRICT	SCHOOLS
SUMTER	17	9	23	305	16	135
UNION	01	12	13	307	9	94
WILLIAMSBURG	01	15	16	573	18	125
YORK	01	6	10	234	10	89
	02	7	15	305	10	116
	03	21	24	647	20	229
	04	4	1	195	9	54
WIL LOU GRAY	06	1	-	-	-	-
SC SCHOOLS FOR BLIND/DEAF	07	5	13	45	17	17
YOUTH SERVICES	08	3	6	149	3	63
TOTALS		1,107	2,474	36,599	1,498	11,553

PROFILE ON INSTRUCTIONAL AND ADMINISTRATIVE

USES OF COMPUTERS AND FUTURE PLANS

BY

SCHOOL DISTRICT

The information provided in this section of the report provides an overview of the instructional uses to which computers are employed in schools--the state's 92* school districts--by grade and brand and model of equipment. A brief description of future uses is also included. The total number of computers and printers by brand and model employed instructively, administratively or both is identified.

This information is recommended as a reference for school district administrators and other educators desiring to compare or explore applications of computers between school districts of the state.

Explanation of Terms:

Instructional uses of computers in district schools

District/Contact: Provides the name and address of the contact person for the school district who prepared the input for the district office survey form.

Instructional Uses: This column is a listing of subject areas in which computers are used. Use as a "Tool" equates with uses of word processing, data base management or for spreadsheets.

Grade: Indicates the grade level or grade range in which each brand and model is employed for various instructional uses.

Brand/Model: Identifies the computers used at each grade level for each particular instructional use.

Descriptions: Provides additional information on use by broad-grade range, ie., elementary, middle/junior and secondary schools.

Future Plans: Provides a brief description of future applications of computers by grade level to include remarks on projected purchases and training plans.

**Includes the Department of Youth Services.*

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Abbeville Mrs. Lee R. Murphy Director of Instruction P.O. Box 520 Abbeville, SC 29620 Phone: 459-5427	Computer Literacy	K-12	Apple IIe/gs
	Computer Programming	11-12	Apple IIe
	Reading/Language	K-12	Apple IIe/gs/CCC
	Science	K-12	Apple IIe/gs
	Mathematics	K-12	Apple IIe/gs/CCC
	Social Studies	K-12	Apple IIe/gs
	Foreign Language	9-12	Apple IIe
	Tool (word processing, etc.)	K-12	Apple IIe/gs
	Business Education	9-12	Apple IIe
	Vocational Education	9-12	Apple IIe

Description of Computer Use
K-12 students have access to Apple IIe/gs computers to supplement regular classroom work. The computers are in teachers' rooms, libraries, and at high schools in lab settings. Grades 5-8 have a computer literacy program, using LOGO as the language. High school business classes use the computers for instruction. Grades 1-8 EIA C/R students use CCC for CAI for supplementary work.

School and District Office Computers: Future Plans
- More computers and printers. Possible expansion of CCC for compensatory/remedial students.
- Teach keyboarding in primary grades.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	188	170	13	32	69
District Office	23	13	9	1	7

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Aiken Dalcho E. Stanley Director, Instructional Technology P.O. Box 1137 Aiken, SC 29802-1137 Phone: 648-1311	Computer Literacy	12	Apple IIe/TRS-80 Model 4
	Computer Programming	9-12	Apple IIe/TRS-80 Model 4
	Reading/Language	1-12	Apple IIe
	Science	1-5	Apple IIe
	Mathematics	1-12	Apple IIe
	Social Studies	1-5	Apple IIe
	Tool (word processing, etc.)	1-12	Apple IIe/TRS-80 Model 4/Tandy 1000
	Business Education	9-12	Tandy 1000

Description of Computer Use
Elementary -- computer specialist in every elementary school. Minimum of 11 Apples at every school used to supplement classroom instruction. Grades 1-5 have CCC for CAI for supplemental work. Several elementary schools have computers in library!
Middle -- computers available for compensatory/remedial students to use for remedial work. CCC lab for supplemental instruction at all middle schools.
High -- all schools offer computer literacy and business education via a computer. CAI utilized at all high schools through CCC.

School and District Office Computers: Future Plans
- Expansion of CCC program at all levels involved. More computers to students.
- Expansion of computerized library systems for all schools.
- Expansion of administrative computers for teacher use for increased efficiency. Electronic gradebooks
- Expansion of district operation to include electronic mail capabilities, and more district level computer usage!

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	1,738	1,563	132	43	372
District Office	23	0	11	12	24

District/Contact	Instructional Uses	Grade Span	School Computers Brand/Model
Allendale Dr. Steve Isom Director of Federal Programs and Technology 919 Railroad Avenue Allendale, SC 29810 Phone: 584-4603	Computer Literacy	1-12	IBM PC/PCjr/Apple IIe/NCR
	Computer Programming	9-12	IBM PC
	Reading/Language	1-12	IBM PC/PCjr/NCR/Apple IIe/Apple IIgs
	Science	1-12	IBM PCjr/Apple IIe/gs
	Mathematics	1-12	IBM PCjr/Apple IIe/
	Mathematics	1-12	IBM PCjr/Apple IIe/Standard/Apple IIgs
	Social Studies	1-12	IBM PCjr/Apple IIe/Standard 286
	Foreign Language	9-12	IBM PCjr
	Tool (word processing, etc.)	Adult/1-12	IBM PCjr/NCR
	Business Education	9-12	IBM PCjr/NCR
	Vocational Education	9-12	IBM-other IBM compatibles
	Other (specify)	SP.ED.	IBM PC/PCjr/NCR/Standard 286

Description of Computer Use
IBM PC's and Apple IIgs' are used in compensatory and remedial reading and math centers and in special education classrooms. IBM PCjr's and Apple IIe's are available for classroom use from the library. IBM PC's are used in business/office skills instruction and for staff development. Instructional computers were purchased with EIA and Chapter I funds. IBM PCjr's and Compaq computers are used for district administration.

School and District Office Computers: Future Plans
- NCR PC/810's with color adapters have been added to Chapter I and EIA remedial labs and to English/language arts classes that serve remedial reading and writing students. These machines will be networked into the OSIRIS Classroom Management System as that system is implemented at classroom level.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	232	199	23	10	63
District Office	7	0	7	0	7

District/Contact	Instructional Uses	Grade Span	School Computers Brand/Model
Anderson 1 Perry M. Bullard Computer Coordinator Route 1 Williamston, SC 29697 Phone: 232-4842	Computer Literacy	9-10	Apple IIe/II+
	Computer Programming	11-12	Apple IIe
	Reading/Language	K-8	Apple IIe
	Science	K-12	Apple IIe
	Mathematics	K-12	Apple IIe
	Social Studies	K-12	Apple IIe
	Foreign Language	K-12	Apple IIe
	Tool (word processing, etc.)	K-12	Apple IIe
	Business Education	K-12	Apple IIe
	Vocational Education	K-12	Apple IIe

Description of Computer Use
Elementary, K-4, or K-5 -- some schools with IBM Writing to Read lab. All schools have Apple IIe computers and are members of MECC consortium.

School and District Office Computers: Future Plans
- Network labs in schools with computer assisted instruction.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	312	261	34	3	62
District Office	11	0	11	0	5

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Anderson 2 John W. Eaves District Computer/Test Coordinator Route 2 Honea Path, SC 29654 Phone: 369-7364	Computer Literacy	1-12	Apple IIe
	Computer Programming	1-12	Apple IIe
	Reading/Language	1-12	Apple IIe/Apple IIgs
	Science	1-12	Apple IIe
	Mathematics	1-12	Apple IIe
	Social Studies	1-12	Apple IIe
	Foreign Language	9-12	Apple IIe
	Tool (word processing, etc.)	1-12	Apple IIe
	Business Education	9-12	Apple IIe
	Vocational Education	9-12	Apple IIe

Description of Computer Use

- Chapter I computers are used for math drill, practice, and tutoring in all elementary and middle schools. Computers are used in many compensatory and remedial classes for reading skills improvement.
- Used by gifted and talented with word processing, mathematics, science, problem solving, and programming.
- Students and teachers have MECC Software available for use in all grades.

School and District Office Computers: Future Plans

- Present use of computers will be continued and expanded.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	217	201	12	4	58
District Office	6	1	0	5	5

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Anderson 3 Don R. Beck CMS/Pathways Coordinator P.O. Box 118 Iva, SC 29655 Phone: 348-6196	Computer Literacy	2-12	Apple IIe/IBM
	Computer Programming	11-12	Apple IIe/IBM
	Reading/Language	K-12	MS-DOS/Apple IIe
	Science	K-12	MS-DOS/Apple IIe
	Mathematics	K-12	MS-DOS/Apple IIe
	Social Studies	K-12	MS-DOS/Apple IIe
	Tool (word processing, etc.)	11-12	IBM

Description of Computer Use
Computer literacy is taught starting in the second grade. Students and teachers use MECC software in all grades.

School and District Office Computers: Future Plans

- Computerize district libraries with appropriate software.
- Purchase 5 laser printers.
- Purchase 4 additional high speed dot matrix printers.
- Purchase image scanner for district office.
- Purchase five (5) 386 machines and twenty (20) 286 machines with additional printers and accessories under CMS Pilot.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	216	135	35	46	35
District Office	6	0	6	0	5

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Anderson 4 Sarah Powell Coordinator, Pathway P.O. Box 545 Pendleton, SC 29670 Phone: 646-8000	Computer Literacy	1-12	Apple IIe/IIc
	Reading/Language	1-12	Apple IIe/IIc
	Mathematics	1-12	Apple IIe/IIc
	Business Education	9-12	Apple IIe/IIc
	Vocational Education	9-12	Apple IIe/IIc

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	105	88	14	4	31
District Office	3	0	3	0	4

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Anderson 5 Ms. Patricia Spaid Coordinator, Mathematics/ Science/Computer P.O. Drawer 439 Anderson, SC 29622 Phone: 260-5000	Computer Literacy	9-12	Apple IIe/IIc
	Computer Programming	11-12	Apple IIe/IIc
	Reading/Language	1-12	Apple IIe/IIgs/IBM PCjr
	Science	1-12	Apple IIe/IIgs/IBM PCjr
	Mathematics	1-12	Apple IIe/IIgs/IBM PCjr
	Social Studies	1-12	Apple IIe/IIgs
	Tool (word processing, etc.)	1-12	Apple IIe/IIgs/IBM PC
	Business Education	10-12	IBM PC
	Vocational Education	11-12	TRS-80
	Other (Writing to Read)	1	

Description of Computer Use

Students at all level have exposure to instructional uses of computers. Computers and software have been provided for each compensatory (EIA and Chapter 1) and EIA remedial class. Networked labs are used for remediation in middle and high schools. High schools offers courses in keyboarding, word processing, and computer science. Two elementary schools have Writing to Read labs for first graders.

School and District Office Computers: Future Plans

- Graduate courses in computer applications.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	672	552	77	44	216
District Office	18	4	14	0	13

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Bamberg 1	Computer Literacy	K-12	Apple IIe/IIgs
Mrs. B. L. Nicholson	Reading/Language	K-9	Apple IIe/IIgs
Bookkeeper/	Science	K-12	Apple IIe/IIgs
Pathways Coordinator	Mathematics	8-12	Apple IIe
P.O. Box 526	Tool (word processing, etc.)	10-12	Apple IIe/IIgs
Bamberg, SC 29003	Business Education	10-12	IBM PC
Phone: 245-3054			

School and District Office Computers: Future Plans

- Present activities will be maintained with no new plans.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	105	87	7	11	50
District Office	2	0	2	0	2

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Bamberg 2	Computer Literacy		Apple
Courtney S. Woodfaulk	Computer Programming		IBM/Apple
Coordinator,	Science		IBM/Apple
Computers Systems	Mathematics		IBM/Apple
P.O. Box 345	Social Studies		IBM/Apple
Denmark, SC 29042	Tool (word processing, etc.)		IBM/Apple
Phone: 793-3346	Business Education		IBM/Apple

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	108	104	4	0	29
District Office	4	0	4	0	4

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Barnwell 19	Computer Literacy	K-12	Apple IIe/II/TI/Comm
Anne B. Atkins	Computer Programming	9-12	Apple IIe
Director, Special Programs	Reading/Language	K-12	Apple IIe
P.O. Box 185	Science	4-12	Apple IIe
Blackville, SC 29817	Mathematics	K-12	Apple IIe
Phone: 284-2234	Social Studies	4-12	Apple IIe
	Tool	10-12	IBM
	Business Education	9-12	IBM
	Other (Except Ed.)	K-12	TI/Apple IIe

All students are exposed to instructional computing. All classrooms in grades 1-4 have a computer, other grades have access to one. All resource rooms have computers. There are computer labs at the elementary, middle, and high schools.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	72	70	2	0	21
District Office	4	0	4	0	4

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Barnwell 29 Brenda Aldrich Supervisor, Instructional 410 E. Main Street Williston, SC 29853 Phone: 266-3701	Computer Literacy	9-12	IBM PC
	Reading/Language	3-8	Apple IIe
	Science	9-12	Apple IIgs
	Mathematics	1-12	Apple IIe/Macintosh
	Tool (word processing, etc.)	9-12	IBM PC
	Business Education	9-12	IBM PC
	Other (Pre-Vocation)	9	Apple IIe

Description of Computer Use
Elementary students receive instruction for 30 minutes every other week on math software. Middle school students use computers in language arts and math classes at teacher's discretion. High school students receive computer literacy, word-processing, data and spreadsheet instruction, science and prevocation.

School and District Office Computers: Future Plans
- We are purchasing materials for Apple networking system for middle school students.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	71	67	4	0	16
District Office	73	66	7	0	19

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Barnwell 45 Laura Sanders Coordinator, Computer 2008 Hagood Avenue Barnwell, SC 29812 Phone: 259-7405	Computer Literacy	3-12	Commodore/Apple/IBM
	Computer Programming	11-12	IBM/laser
	Reading/Language	1-8	Apple
	Science	6-8	Apple
	Mathematics	1-8	
	Social Studies	6-8	
	Tool (word processing, etc.)	10-12	IBM/Apple/Laser
	Business Education	9-12	IBM/Apple/Laser
	Vocational Education	11-12	Softex

Description of Computer Use
Apple IIe and Commodore -- compensatory reading and math; IBM jr and Apple IIe -- classroom 3-8; IBM, Laser, Apple, and Softex -- classroom 9-12; IBM XT, NCR, and Sperry -- administration; Apple IIe and Epson Speech Pac - handicapped students; and OSIRIS - used in all schools.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	108	75	25	8	47
District Office	2	0	2	0	2

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Beaufort Diane Brantley Administrative Computer Specialist 1300 King Street Beaufort, SC 29902 Phone: 524-2660 Ext. 28	Computer Literacy	K-3/7-8	Apple IIe/IIgs
	Computer Programming	9-12	Apple IIe/MS-DOS
	Reading/Language	1-6	Apple IIe/IIc
	Science	10-12	Apple IIe
	Mathematics	1-6	Apple IIe
	Social Studies	1-6	Apple IIe
	Foreign Language	10-12	Apple IIe
	Tool (word processing, etc.)	7-8	Apple IIe
	Business Education	10-12	Apple IIe
	Vocational Education	10-12	Apple IIe

Description of Computer Use
A set of curricula objectives and activities has been developed for grades K-6. K-3 emphasis is on computer literacy. Grades 4-6 emphasis is on use of Logo.

School and District Office Computers: Future Plans

- Consideration is being given to upgrading the technology in our schools by looking at Apple IIgs, Macintosh, and MS-DOS equipment
- Plans include networking in the classrooms and the hiring of additional personnel. Curriculum is undergoing continuous revisions.
- Computer literacy program is to be standardized in grades 7-8 following move to middle school. Secondary schools will offer programming and application. Elementary schools will continue implementing program and activities developed during school year 87-88.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	516	349	99	68	166
District Office	48	0	48	0	39

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Berkeley Anne B. Godbee Computer/Gifted/Talented P.O. Box 608 Moncks Corner, SC 29461 Phone: 761-8600	Computer Literacy	7-12	Apple IIe
	Computer Programming	7-12	Apple IIe
	Reading/Language	K-12	Apple IIe
	Science	1-12	Apple IIe
	Mathematics	1-12	Apple IIe
	Social Studies	1-12	Apple IIe
	Foreign Language	9-12	Apple IIe
	Tool (word processing, etc.)	9-12	Apple IIe
	Business Education	9-12	Apple IIe
	Vocational Education	9-12	Apple IIe/TERAC
	Other (Exceptional)		Apple IIe

Description of Computer Use

Every high and middle school has a CCC lab for remedial math and reading. Prescription Learning Labs for compensatory students at selected elementary and middle schools. Drill and practice in remedial/compensatory math and reading classes. High schools offer computer literacy and programming courses. Computers are used in vocational classes, in business courses, and CAD systems are used for drafting. Computers are available in most schools for classroom use. Twenty-one self-contained handicapped classes use computers CAI and drill. Computer circulation and catalog in selected libraries.

School and District Office Computers: Future Plans

- Introduction of CD-ROM encyclopedia at selected sites.
- Establishment of district BBS.
- Development of CMS network.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	1,517	1,239	131	147	413
District Office	47	18	28	1	31

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Calhoun Donnie Boland Assistant Superintendent, Business and Computer Operations P.O. Box 215 St. Matthews, SC 29135 Phone: 655-7310			

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	166	148	10	8	73
District Office	5	0	5	0	6

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Charleston Mike Stratton Supervisor, Computer Education 3 Chisolm Street Charleston, SC 29401 Phone: 722-8461	Computer Literacy Computer Programming Reading/Language Science Mathematics Social Studies Foreign Language Tool (word processing, etc.) Business Education Vocational Education	9-12	Apple IIe/IIgs/ Model 25 PS-2/Model 25/IIgs IIgs/Laser Mac/IIgs PS-2/Model 30/IIgs IIgs IIgs PC/Model 25/IIgs/IIe PC/Model 30 PC/Tandy

Description of Computer Use
Computer availability for students is increasing rapidly. MECC software continues to form the bulk of our collection, but so many sophisticated quality programs are coming on the market that choices are difficult at all levels. Integrated learning systems are increasing (ESC, CCC).

School and District Office Computers: Future Plans

- Networking is a major focus in school and administrative settings. A variety of products has created a complex market. File transfer and E-Mail are being installed in administrative areas. Computer labs at all levels are gradually being networked. Staff development is year round and increasing in frequency.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	2,953	2,417	248	281	940
District Office	68	0	68	0	49

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Cherokee Olin Huffman Director, Computer Services P.O. Box 460 Gaffney, SC 29432 Phone: 489-0261	Computer Literacy Reading/Language Mathematics	8-12 7-12 7-12	IBM PS2/Apple IIe/Commodore Apple IIe/IIgs Rainbow Digitor/Apple IIe

Description of Computer Use
Instructional use of computers in the elementary school consists primarily of one or more computers located in teachers' classrooms with students using them for computer-assisted instruction. This same approach is being used in the secondary schools, but computer labs are also being used at the senior high level for language and math instruction.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	554	463	45	46	140
District Office	8	0	8	0	8

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Chester James F. Poarch Director, Computer Services 103 Foote Street Chester, SC 29706 Phone: 385-6122	Computer Literacy	8	Apple IIe
	Computer Programming	9-12	Apple IIe
	Reading/Language	1-12	Apple IIe
	Mathematics	1-12	Apple IIe
	Tool (word processing, etc.)	9-12	Apple IIe
	Vocational Education	9-12	IBM PC-AT
	Other (Keyboarding)	7	Apple IIe

Description of Computer Use

Computers span the curriculum from kindergarten through grade 12. BASIC and PASCAL are taught in grades 9-12. Tool (Word Processing) is being taught in grades 9-12 with preliminary word processing being taught in 0-12. Keyboarding is required for all 7th graders as a nine-week course. Computer Literacy for all 8th graders is required as a nine-week course. Computers are used in grades 1-6 to supplement instruction in the compensatory program. Computers and software are available to all basic skills teachers to supplement the curriculum. EIA Remedial Laboratories (grades 7-8) for both reading and math include computer-assisted instruction of one of several instructional methods. Computers and software are available on a limited basis to all basic skills teachers to provide drill and practice. In grades 9-12, two remedial language arts and two math labs have been established which provide computer-managed and computer-assisted instruction. Other classrooms use computers to provide remediation drill and practice on basic skills and SAT improvement.

School and District Office Computers: Future Plans

- Replacement of outdated computer systems will be emphasized in grade 7.
- Expansion of grade 9-12 programming laboratories with additional computers and printers will allow more flexibility in the curriculum. Additionally, projection screens will be used for instructional purposes within all laboratories.
- All teachers new to the district will be taught using the Apple IIe and new school administrative staff will be trained on the IBM PC-AT.
- Networking will be accomplished in three 9-12 laboratories in the Vocational Center as well as the district office utilizing IBM equipment and software.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	370	331	32	36	121
District Office	12	0	0	12	12

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Chesterfield John W. Wagnon Coordinator, Pathways 401 West Blvd. Chesterfield, SC 29709 Phone: 623-2175	Computer Literacy	2-12	TRS-80 III, Apple IIe/gs/CCC-SLS
	Computer Programming	7-12	TRS-80 III/Apple IIe
	Reading /Language Arts	1-12	CCC-SLS
	Mathematics	1-12	CCC-SLS
	Tool (word processing, etc.)	7-12	TRS-80 III/Apple IIe/Tandy 1000
	Business Education	9-12	TRS-80/Apple IIe/Tandy 1000
	Vocational Education	9-12	TRS-80/Apple IIe/Tandy 1000

Description of Computer Use
All compensatory and remedial students receive daily drill/instructional exercises through a computer lab at each school, usually in addition to remedial classroom instruction. Teachers at all schools use course--specific software to supplement instruction. All middle school and secondary students have access to course offerings presenting introduction, applications, and programming.

School and District Office Computers: Future Plans
- Extension of OSIRIS networking capacity into elementary schools maintenance orders and supply requisitions from all schools via E-Mail/bulletin board.
- Laser printing capability for all schools.
- IBM-compatible labs in all high schools.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	548	498	44	6	146
District Office	17	0	12	5	9

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Clarendon 1 Murdock White Director, AVA P.O. Box 38 Summerton, SC 29148 Phone: 485-2325	Computer Literacy	8 & 12	Apple II/IIe
	Computer Programming	8-12	Apple II/IIe
	Reading /Language Arts	2-12	Apple II/IIe
	Mathematics	2-12	Apple IIe

Description of Computer Use
Middle school students work with computers from classrooms and computer lab.

School and District Office Computers: Future Plans
- Will install modems in two of three schools and one at district office.
- Will install 5 computers in lab at St. Paul Primary School.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	57	53	3	1	8
District Office	3	0	3	0	4

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Clarendon 2 Star H. Martin Coordinator P.O. Box 1252 Manning, SC 29102 Phone: 435-4435	Computer Literacy	10	TRS-80
	Computer Programming	10/GTA	TRS-80/Apple IIe Computer
	Reading /Language Arts	1-12	Apple IIe/IBM Compatible with TABS
	Science	9-12	Apple IIe/IIgs
	Mathematics	1-12	Apple IIe
	Foreign Language	9-12	Atari
	Business Education	9-12	TRS-80
	Vocational Education	9-12	TRS-80
	Other (Material Center)	K-12	Apple IIe

Description of Computer Use

Computers assist in compensatory and remedial classes at all grade levels. Computers support reading and math instruction in grades 6-12. Computers are used as instructional aids in science, foreign language, vocational courses, and for gifted students. The review of software for the total curriculum is done through the Material Center. Computer Projectors are used as teaching aids in classroom for instruction concerning software.

School and District Office Computers: Future Plans

- Keyboarding 1-8 and Computer Labs 1-6 --district is in the process of writing grants to address these needs.
- Classes and workshops for teachers and teacher aides in Appleworks using the Gradebook as a classroom management system. Previewing TABS for Reading Lab in the high school for future use.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	167	103	16	54	38
District Office	7	0	7	0	9

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Clarendon 3 Elizabeth Coker Director, Federal Programs P.O. Drawer 270 Turbeville, SC 29162 Phone: 659-2188	Computer Literacy	9-12	Apple IIe/gs
	Computer Programming	3-8/Gifted	Kaypro
	Reading /Language Arts	2-5/6-8	Apple IIe/Kaypro
	Mathematics	2-5/6-8	Apple IIe/Kaypro
	Tool (word processing, etc.)	3-8/Gifted	Kaypro
	Business Education	10-12	Kaypro

Description of Computer Use

Compensatory reading and math use Prescription Learning Multi-media Labs in grades 2-5. Compensatory and remedial in grades 6-8 have access to computers for supplementary remedial help. Gifted summer school use computers for many academic areas for enrichment and exploration. Vocational received three computers this year under grant.

School and District Office Computers: Future Plans

- All - expand computers literacy and vocational education computer use.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	62	57	5	0	19
District Office	4	0	4	0	5

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Colleton Charles Gale Coordinator, Pathways 525 Recold Road Walterboro, SC 29488 Phone: 538-5538	Computer Literacy	9-12	Apple IIe
	Computer Programming	9-12	Apple IIe/Laser/Softek
	Reading /Language Arts	1-12	Apple IIe/TRS-80/TI
	Science	1-12	Apple IIe
	Mathematics	1-12	Apple IIe/TRS-80
	Social Studies	1-12	Apple IIe
	Foreign Language	9-12	Apple IIe
	Tool (word processing, etc.)	11-12	Softek
	Business Education	11-12	Softek
	Vocational Education	11-12	Softek

Description of Computer Use
All levels are continuing to add computers and software to integrate into the existing curriculum.

School and District Office Computers: Future Plans

- All schools will have modems installed through the OSIRIS system. This will enable further growth through the communication networks, but the lack of funds are a problem.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	348	284	46	18	82
District Office	5	0	5	0	3

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Darlington Diane Sigmon Computer Coordinator 102 Park Street Darlington, SC 29532 Phone: 393-2586	Computer Literacy	K-12	Apple IIe/IIgs/Tandy/PCjr
	Computer Programming	9-12	Apple IIe/IIgs/Tandy/PCjr
	Reading /Language Arts	K-12	Apple IIe/IIgs/Tandy/PCjr
	Science	1-12	Apple IIe/IIgs/Tandy/PCjr
	Mathematics	1-12	Apple IIe/IIgs/Tandy/PCjr
	Social Studies	3-12	Apple IIe/IIgs/Tandy/PCjr
	Tool (word processing, etc.)	9-12	IBM-Personal Typing Systems/PS-2/PC
	Business Education	9-12	IBM-Personal Typing Systems/PS-2/PC
	Vocational Education	9-12	IBM-Personal Typing Systems/PS-2/PC

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	785	627	77	81	304
District Office	834	651	105	78	335

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Dillon 1	Reading /Language Arts	2-12	Apple IIe
Stephen Laird	Science	9-12	Apple IIe
Assistant Superintendent	Mathematics	5-12	Apple IIe
P.O. Box 644	Social Studies	9-12	Apple IIe
Lake View, SC 29563	Business Education	10-12	TRS-80
Phone: 759-2882	Other (Gifted & Talented)	3-10	Apple IIe

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	66	63	3	0	18
District Office	1	0	1	0	1

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Dillon 2	Computer Literacy	K-12	Apple IIe
Mrs. Judy Young	Computer Programming	11-12	Apple IIe
Supervisor,	Reading /Language Arts	1-12	Apple IIe
Accounting Department	Science	1-12	Apple IIe
401 W. Washington Street	Mathematics	1-12	Apple IIe
Dillon, SC 29536			

Description of Computer Use

Used for remediation, drill, and practice. Some "game" formats used for challenge/reward. Computer programming offered as a unit course in high school. Computer management programs used in Chapter I classes in grades 4-6. All schools participate in the Pathways Project (OSIRIS).

School and District Office Computers: Future Plans

- Computer literacy program for parents at elementary level.
- Continue to purchase computers at all levels to increase availability to teachers and students.
- Possibly to designate a district-level administrator as computer coordinator on a part-time basis.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	217	171	16	30	104
District Office	11	0	11	0	6

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Dillon 3 C. O. Epps Coordinator, Pathways P.O. Box 458 Latta, SC 29565 Phone: 752-7101	Other (OSIRIS)	Staff	NCR PC8

Description of Computer Use
Class for secretaries on OSIRIS.

School and District Office Computers: Future Plans
- Class for secretaries on Q&A.
- Class for expansion of use of OSIRIS.
- Small-group instruction as requested by users.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	89	85	4	0	17
District Office	7	0	7	0	7

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Dorchester 2 Karl Naugle Computer Coordinator 102 Greenwave Blvd. Summerville, SC 29483 Phone: 875-4161	Computer Literacy	K-12	Apple IIe/IIgs
	Computer Programming	6-12	Apple IIe/IIgs
	Reading /Language Arts	K-12	Apple IIe/IIgs
	Science	K-12	Apple IIe/IIgs
	Mathematics	K-12	Apple IIe/IIgs
	Social Studies	K-12	Apple IIe/IIgs
	Foreign Language	6-12	Apple IIe/IBM PC
	Tool (word processing, etc.)	K-12	Apple IIe/IIgs/IBM PC/PS/2-25
	Business Education	9-12	IBM PC/PS/2-25
	Vocational Education	9-12	IBM PC/PS/2-25

Description of Computer Use
We are currently revising our computer curriculum to provide a broad based curriculum that will expose all of our students to computers grades K-12 at an even pace. We also are upgrading our vocational education and high school programs to include more computer use as the new-technologies provide us vehicles to use the computer.

School and District Office Computers: Future Plans
- We are a part of the state's CMS Project. We are working toward a computer on every teacher's desk for paperwork reduction.
- We also intend to buy additional computers for labs to train our teachers in the new software and also integration of the computer into the classroom curriculum.
- We also plan additional purchases of Apple computers for student use.
- We are networking in many of our schools to provide more opportunity to share data between students and also teachers.
- We also plan to network our district office and add electronic mail service to all schools.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	518	393	83	43	194
District Office	22	0	0	22	4

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Dorchester 4 Vivian M. Hendrix Coordinator, Math/Science 500 Ridge Street St. George, SC 29477 Phone: 563-4535	Computer Literacy	9-12	Apple
	Computer Programming	9-12	Apple
	Reading /Language Arts	K-12	CCC/Apple/Apple/Commodore/Digital
	Mathematics	K-12	CCC/Apple/Commodore
	Business Education	9-12	Lanier

Description of Computer Use

Elementary:
1. CAI used to supplement regular instruction (reading, math, and language arts)
2. Writing to Read Lab

Middle:
1. CCC lab (reading and math)
2. CAI used to supplement regular instruction (reading, math, and language arts)

Secondary:
1. CAI used to supplement regular instruction (reading, math, and language arts)
2. Governor's Remedial Lab -- math and reading
3. Elementary Programming
4. Business Applications

School and District Office Computers: Future Plans

- Staff Development: 3-hour graduate course -- "Integrating Computers into the Curriculum"
- We plan to offer keyboarding at the secondary level.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	153	134	14	15	61
District Office	5	0	2	3	5

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Edgefield Charles Wilkes DP Manager P.O. Box 608 Edgefield, SC 29824 Phone: 275-4601	Computer Literacy	K-12	IBM S-36/IBM PC/Apple
	Computer Programming	7-12	IBM S-36/IBM PC/Apple
	Mathematics	K-12	Apple
	Tool (word processing, etc.)	9-12	IBM S-36/IBM PC/Apple
	Business Education	9-12	IBM PC/Apple
	Vocational Education	9-12	IBM PC/Apple

Description of Computer Use

All students (K-12) have exposure to instructional computing. Each elementary and middle school has at least one computer lab. Kindergarten through sixth-grade students attend one day per week for CAI. Grades 7-8 attend by the quarter semester respectively for CAI and simple programming skills. Computers are used in some of the remedial and compensatory classes. The high school offers programming as an elective. All schools and the vocational school offer word processing. High school special education students use computers in the resource room. Advanced high school math classes use computers to explore math topics and to prepare for the SAT.

Note: High school is presently using student accounting on OSIRIS software on the PC/AT. We are utilizing data communications to the State Department of Education for the teacher certification project and for both high school vocational SCOIS program via a PC/AT and modem. Adult education night classes are learning word processing, computer concepts, and BASIC programming skills on S/36 and PC's.

School and District Office Computers: Future Plans

- Install Apple computers at high schools for remediation writing.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	297	257	22	18	69
District Office	7	0	4	3	7

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Fairfield Harold Scarbro Director, Testing/ Coordinator, Chapter I P.O. Drawer 622 Winnsboro, SC 29180 Phone: 635-4607	Computer Literacy	K-12	Apple/IBM
	Computer Programming	9-12	IBM
	Reading /Language Arts	1-8	Apple IIe/IIgs
	Mathematics	1-6	Apple IIe/IIgs
	Tool (word processing, etc.)	9-12	IBM
	Business Education	9-12	IBM
	Vocational Education	9-12	IBM/Macintosh

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	255	240	12	3	76
District Office	14	2	12	0	12

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Florence 1 Thomas G. Pritchard Director, Testing and Information Management 319 South Dargan Street Florence, SC 29501 Phone: 664-8151	Computer Literacy	1-12	Apple IIe/IIgs
	Computer Programming	8-12	MS-DOS
	Reading /Language Arts	1-12	Apple IIe/IIgs
	Science	1-12	Apple IIe/IIgs
	Mathematics	1-12	Apple IIe/IIgs
	Social Studies	1-12	Apple IIe/IIgs
	Foreign Language	9-12	Apple IIe/IIgs
	Tool (word processing, etc.)	1-12	Apple/MS-DOS
	Business Education	9-12	MS-DOS

School and District Office Computers: Future Plans

- On-going training of all staff members.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	776	648	72	56	236
District Office	40	0	30	10	15

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Florence 2 E. Lancie Hyman Director, Instruction Route 1, Box 36-B Pamplico, SC 29583 Phone: 493-2502	Computer Literacy	5-12	Apple IIe/Franklin
	Computer Programming	9-12	Apple IIe
	Reading /Language Arts	K-12	Apple IIe/Franklin/CCC
	Science	1-12	Apple IIe/Franklin
	Mathematics	1-12	Apple IIe/Franklin
	Business Education	9-12	Apple IIe

Description of Computer Use

Some middle/high school students receive computer literacy training. Computer programming is offered at the high school level. Some elementary and middle school students receive instruction in reading and math via Apple IIe software and the CCC Microhost System. The Apple IIe's are also used in some science classes in grades K-8. Wording processing and data processing are offered to students in grades 9-12 through the business education department.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	93	80	10	3	33
District Office	5	0	5	0	4

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Florence 3 Christopher A. Guerrieri Assistant Superintendent Drawer 128 Lake City, SC 29560 Phone: 394-8652	Computer Literacy	4-8	Apple
	Computer Programming	10-12	Apple/IBM
	Reading /Language Arts	2-8	CCC/Apple
	Science	2-8	Apple
	Mathematics	2-8	CCC/Apple
	Social Studies	2-8	Apple
	Foreign Language	2-8	Apple
	Tool (word processing, etc.)	4-8/10-12	IBM/Apple
	Business Education	10-12	IBM
	Vocational Education	10-12	IBM/Apple

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	305	247	11	47	71
District Office	14	0	14	0	8

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Florence 4 Ms. M. Poole Coordinator, Computer Services 112 South Kershaw Street Timmonsville, SC 29161 Phone: 346-5391	Computer Literacy	10	TRS-80
	Computer Programming	10-12	IBM PCjr
	Reading /Language Arts	K-12	Apple/CCC/Digitial
	Mathematics	K-12	Apple/CCC/Digital
	Tool (word processing, etc.)	10-12	IBM PCjr
	Business Education	10-12	IBM PCjr
	Vocational Education	10-12	IBM PCjr/Apple IIe

Description of Computer Use

Reinforcement of basic skills in reading and mathematics (K-12).
Business applications, programming (BASIC) literacy, and CAD (computer-aided design) in (10-12) vocational classes.

School and District Office Computers: Future Plans

- Additional training in computer literacy will be offered for all teachers in the district as an on-going program.
- Several new computers are forecasted for our industrial technology education classes during the 1989-90 school year.
- Our adult education evening classes will probably be using the CCC/Microhost computers to expand instruction in the reading and mathematics classes during the 1989-90 school year.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	83	77	4	2	23
District Office	4	0	4	0	5

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Florence 5 Richard Silvernail Computer Coordinator Drawer 98 Johnsonville, SC 29555 Phone: 386-2341	Computer Literacy	K-4/9-12	Tandy 1000
	Reading /Language Arts	K-12	Model IV/Tandy 1000
	Science	K-4	Tandy 1000
	Mathematics	K-12	Model IV/Tandy 1000
	Tool (word processing, etc.)	9-12	Tandy 1000
	Business Education	9-12	Tandy 1000
	Vocational Education	9-12	Tandy 1000/Model III &IV
	Other (Adult Ed.)		Model IV

Description of Computer Use
Elementary -- computer lab of Tandy 1000's -- used for computer literacy, science, math, and reading. Chapter I uses Tandy 1000 for remediation.
Middle -- Model IV and Apple IIe's are used in the library by all students. Chapter I uses Tandy 1000's for remediation.
High -- Model 4 network used for remedial math and reading. Tandy 1000's used in business department. Special education use Model 4.

School and District Office Computers: Future Plans
- Purchase and implement IBM's Writing to Read program for grade 1.
- Training of all district personnel in the use of the computer.
- Purchase computer lab for teaching of keyboarding at the high school.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	75	69	6	0	26
District Office	15	11	4	0	6

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Georgetown Richard E. Toemmes Director, M.I.S. 624 Front Street Georgetown, SC 29440 Phone: 527-1338	Computer Literacy	K-12	Apple IIe/IBM/Laser/Atari/Commodore
	Reading /Language Arts	K-12	Apple IIe/IBM/Atari/Commodore
	Science	K-12	Apple IIe/IBM/Atari/Commodore
	Mathematics	K-12	Apple IIe/IBM/Atari/Commodore
	Social Studies	K-12	Apple IIe/IBM/Atari/Commodore
	Tool (word processing, etc.)	6-12	Apple IIe/IBM
	Business Education	10-12	IBM PC & PS2
	Vocational Education	10-12	IBM PC & PS2

Description of Computer Use
Students K-12 all experience some computer usage, All middle schools and high schools are equipped with CCC learning lab. Elementary students computer experiences are integrated into other instructional program. Secondary students experience computer use from word processing to computer repairs.

School and District Office Computers: Future Plans
- Computerized card filer and checkout in all libraries.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	584	535	39	10	122
District Office	57	28	27	2	33

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Greenville Horace Butler Computer Consultant P.O. Box 2848 Greenville, SC 29602 Phone: 242-6450	Computer Literacy	K-12	Apple/IBM PCjr/IBM PC-PS
	Computer Programming	6-12	Apple IIe/IIgs
	Reading /Language Arts	K-12	Apple IIe/IIgs/IBM PCjr
	Science	K-12	Apple IIe
	Mathematics	K-12	Apple IIe
	Social Studies	K-12	Apple IIe
	Foreign Language	K-12	Apple IIe
	Tool (word processing, etc.)	4-12	Apple
	Business Education	9-12	IBM PC
	Vocational Education	9-12	IBM PC

School and District Office Computers: Future Plans

- Our district is in transition again. A plan of study was begun in March, 1989.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	2,408	2,081	188	135	916
District Office	51	0	51	0	57

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Greenwood 50 Gary West CMS Coordinator P.O. Box 248 Greenwood, SC 29648 Phone: 22304348 Ext. 245	Computer Literacy	1-12	Apple IIe/IBM PC/PS2/NCR
	Computer Programming	10-12	Apple IIe/IBM PC
	Reading /Language Arts	1-12	Apple IIe/IBM
	Science	1-12	Apple IIe/IBM PS/2
	Mathematics	1-12	Apple IIe/IBM PS/2
	Social Studies	2-12	Apple IIe/ IBM PS/2
	Foreign Language	7-9	Apple IIe
	Tool (word processing, etc.)	4-12	Apple IIe/IBM PC/PS2
	Business Education	10-12	IBM PC/PS2
	Vocational Education	10-12	IBM PC/PS2

Description of Computer Use

- WICAT lab for reading and math (7-9)
- Prescription Learning in Chapter I, EIA remediation (1-6)
- EIA labs for reading and math (10-12)

School and District Office Computers: Future Plans

- Increase acquisition of MS-DOS, OS/2 machines for instruction (all levels).
- Implement SDE Classroom Management System in 6 pilot schools.
- Increase number of WICAT labs in grades 7-9.
- Implement Writing to Read program in kindergarten and grade 1.
- Train all teachers to use word processing software.
- Implement SDE Classroom Management System in 7 non-pilot schools (including laser printers, Novell networks, and other resources).
- Network district offices (Novell) and develop a district-wide student database from OSIRIS school databases.
- Adult education component (MS-DOS); applications and instruction.
- Take-home computers (MS-DOS) for Chapter I/EIA remediation; software for specific student needs.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	421	315	60	46	139
District Office	49	16	33	0	43

District/Contact

Greenwood 51
Pat Roebuck
School Psy./Computer Coord.
42 Sparks Avenue
Ware Shoals, SC 29692

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	88	74	9	5	41
District Office	2	0	2	0	2

District/Contact

Greenwood 52
Marilyn P. Rieger
Instructional Coordinator
119 South Cambridge Street
Ninety Six, SC 29666
Phone: 543-3100

Description of Computer Use
Elementary students use computers in all classrooms and for publication of a student newsletter. At the middle school level, computers are used as enrichment and in Chapter 1 classes. Secondary students use computers in business, science, social students, journalism classes, remediation programs, and for SAT preparation. Students in the gifted program in grades 2-10 use computers extensively.

School and District Office Computers: Future Plans
- Continue participation in Pathways project at all schools. Expand use of computers in special education classes.
- Implement a networked lab of Apple computers at Ninety Six Middle School with emphasis on basic skills instruction and computer literacy.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	60	54	4	2	28
District Office	5	0	5	0	6

District/Contact	School Computers		
	Instructional Uses	Grade Span	Brand/Model
Hampton 1 A. Randall Vaughn Deputy Superintendent P.O. Box 177 Hampton, SC 29924 Phone: 943-4576	Computer Literacy	K-8	Apple IIe
	Computer Programming	9-12	IBM/Apple
	Reading /Language Arts	K-12	IBM/Apple
	Science	K-12	IBM/Apple
	Mathematics	K-12	IBM/Apple
	Social Studies	K-12	IBM/Apple
	Tool (word processing, etc.)	9-12	IBM
	Business Education	9-12	IBM
	Vocational Education	9-12	IBM

Description of Computer Use
All schools in the district are running OSIRIS. The Compensatory/Remedial Chapter I programs are utilizing CAI at all grade levels. Some elementary schools are using a "bonus" time with much success in the morning before the actual instructional day begins. This opens the door for all students to have computer time regardless of the EIA classification. Modems have been installed at all schools to provide on-line assistance to schools.

School and District Office Computers: Future Plans
- Expand the number of computers in the district.
- Implement a lab at the high school that can meet a wide range of needs.
- Access from middle schools via modem is also planned.
- Monitoring of class work is also planned.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	193	177	13	3	54
District Office	6	0	0	6	5

District/Contact	School Computers		
	Instructional Uses	Grade Span	Brand/Model
Hampton 2 Jack Diamond Budget Director P.O. Box 1028 Estill, SC 29918 Phone: 625-2875	Computer Literacy	5-12	Apple IIe/IIc
	Computer Programming	11-12	Apple IIe/IIc
	Reading /Language Arts	K-12	Apple IIe/IIc/IBM 25
	Science	1-12	Apple IIe/IIc
	Mathematics	1-12	Apple IIe/IIc
	Social Studies	1-12	Apple IIe/IIc
	Foreign Language	9-12	Apple IIe/IIc/IBM 25
	Tool (word processing, etc.)	K-12	Apple IIe/IIc
	Business Education	10-12	Apple IIe/IIc
	Vocational Education	10-12	Apple IIe/IIc

Description of Computer Use
Two new programs are "Write to Read" using IBM 25's at kindergarten and first readiness and "Take Home Computers" in Chapter I program using apple IIc's.

School and District Office Computers: Future Plans
- Expanding "Take Home Computers" at the elementary level.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	161	131	11	19	55
District Office	7	0	7	0	6

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Horry Richard Nadeau Coordinator, Computer Instruction 1605 Horry Street, Room #3 Conway, SC 29526 Phone: 248-2206	Computer Literacy	K-12	Apple IIe/IIgs
	Computer Programming	8-12	Apple IIe/IIgs
	Reading /Language Arts	K-12	Apple IIe/IIgs/IBM PC
	Science	1-12	Apple IIe/IIgs
	Mathematics	1-12	Apple IIe/IIgs
	Social Studies	1-12	Apple IIe/IIgs
	Foreign Language	9-12	Apple IIe/IIgs
	Tool (word processing, etc.)	1-12	Apple IIe/IIgs/IBM
	Business Education	9-12	Apple IIe/IIgs/IBM PC
	Vocational Education	9-12	Apple IIe/IIgs/IBM PC

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	1,305	1,134	133	38	350
District Office	64	0	0	0	44

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Jasper Joe Madden Computer Specialist P.O. Box 848 Ridgeland, SC 29936 Phone: 726-7200	Computer Literacy	9-12	TRS-80 III/Commodore 64/ IBM Compatible/PCjr
	Computer Programming	9-12	TRS-80 III/IBM Compatible
	Mathematics	9-12	CCC/Winthrop(Atari/Apple IIe)
	Tool (word processing, etc.)	9-12	TRS-80 III/IBM Compatibles
	Business Education	9-12	TRS-80 III/IBM Compatibles
	Vocational Education	9-12	TRS-80 III/IBM Compatibles

Description of Computer Use
Elementary -- TRS-80; PCjr; Commodore 64
Secondary -- IBM Compatible; TRS-80 III; apple IIe; Atari

School and District Office Computers: Future Plans

- Writing to Read -- elementary
- Typing Lab -- secondary -- networked with business and vocational computers.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	112	85	4	23	27
District Office	9	0	9	0	11

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Kershaw W. Frank Montgomery, Jr. Coordinator, Ancillary Services DuBose Court Camden., SC 29020 Phone: 432-8416	Computer Literacy	9-12	TRS-80/Apple IIe
	Computer Programming	9-12	TRS-80
	Reading /Language Arts	K-12	Apple IIe
	Science	K-12	Apple IIe
	Mathematics	K-12	TRS-80/Apple IIe
	Social Studies	K-12	Apple IIe
	Foreign Language	9-12	Apple IIe
	Tool (word processing, etc.)	9-12	TRS-80/Apple IIe
	Business Education	9-12	Apple IIe/IBM PC
	Vocational Education	9-12	TRS-80/IBM PC

Description of Computer Use

Secondary students have an opportunity to study computer programming. Other instructional use occurs in an integrated manner through lab scheduling in regular content classrooms. Remedial math labs are available in all of the high schools. K-8 programs are provided in compensatory and remedial classes and in some schools are integrated into the regular content classrooms.

Kershaw County maintains a MECC membership and makes other software available through district materials center. All schools are implementing OSIRIS software for administration, attendance, and reporting to parents at middle and secondary level.

School and District Office Computers: Future Plans

- Training for staff member continues to be available at no cost. Budgetary effort to improve ratio of computers to students to reach state average. Plan to increase access for students not in any special category.
- OSIRIS training and networking continue to be priorities at all schools, pending funding.

- Kershaw County maintains a MECC membership and makes other software available through district materials center. All schools are implementing OSIRIS software for administration, attendance, and reporting to parents at middle and secondary level.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	489	421	44	23	158
District Office	32	0	32	0	23

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Lancaster Bruce Harris Director of Computer Services P.O. Drawer 130 Lancaster, SC 29720 Phone: 286-7981	Computer Literacy	K-12	Apple IIe
	Computer Programming	9-12	Apple IIe/IBM
	Reading /Language Arts	K-12	Apple IIe
	Science	K-12	Apple IIe
	Mathematics	K-12	Apple IIe
	Social Studies	K-12	Apple IIe
	Foreign Language	10-12	Apple IIe
	Tool (word processing, etc.)	9-12	Apple IIe
	Business Education	10-12	Apple IIe
	Vocational Education	10-12	Apple IIe
	Other (IEP's)	Sp.Ed.	Apple IIe
	Other (Gifted & Talented)	2-12	Apple IIe

Description of Computer Use
Elementary, junior high, and high school students receive instruction in computer literacy to varying degrees. Both elementary and secondary use computers for resource/remedial work in the classroom and library.

School and District Office Computers: Future Plans

- Purchase additional hardware and software. Work toward at least one complete computer lab at each elementary and secondary school. Install a bulletin board system for the school district.
- Coordinate the purchase of new equipment to ensure compatibility with existing equipment. Continue with existing staff development computer courses and expand the offerings for the 1989-90 school year.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	527	398	73	55	214
District Office	20	1	19	0	18

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Laurens 55 Russell Burns Director of Technology P.O. Box 388 Laurens, SC 29360 Phone: 984-3568	Computer Literacy	K-12	IBM PS/2-25/Tandy 1000/ Commodore 64
	Computer Programming	11-12	IBM PS/2-25
	Reading /Language Arts	K-12	IBM PS/2-25/Tandy 1000/ Commodore 64/Apple IIe
	Science	3-12	IBM PS/2-25//Tandy 1000/ Commodore 64
	Mathematics	3-12	IBM PS/2-25/Tandy 1000/ Commodore 64/Apple IIe
	Social Studies	3-12	IBM PS/2-25/Tandy 1000/ Commodore 64
	Tool (word processing, etc.)	5-12	IBM PS/2-25//Tandy 1000/ Commodore 64
	Business Education	9-12	Lanier/Tandy III

Description of Computer Use

Computer literacy is a component of all instruction that uses computers. Lower elementary levels are concentrating on "Writing to Read" instruction via computers while secondary levels use "PALS" and "Prescription Learning" for remediation in reading/language arts/mathematics. Text processing is introduced at the upper elementary level, particularly in gifted and talented, and becomes established in the secondary curriculum, primarily in business education. Math, science and social studies programs are available in labs in upper elementary and secondary.

School and District Office Computers: Future Plans

- We plan to install five additional instructional computer labs in 1989-90, spanning upper elementary and junior high grades to add reinforcement to basic skills.
- As a CMS pilot district, we will be heavily involved in 1989-90 and thereafter with teacher training in support of this instructional/administration program relating to paperwork reduction and effective use of instructional data.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	298	227	41	30	73
District Office	32	14	15	4	17

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Laurens 56 Lenzy Randall Assistant Superintendent P.O. Drawer 484 Clinton, SC 29325 Phone: 833-0800	Computer Literacy	2-12	Commodore 64/Apple II/ IBM PC/Columbia
	Computer Programming	9-12	IBM PC/Columbia
	Reading /Language Arts	1-12	Atari (CCC)/Apple II/Commodore 64
	Mathematics	1-12	Atari (CCC)/Apple II/Commodore 64
	Tool (word processing, etc.)	9-12	IBM PC/Columbia
	Business Education	9-12	IBM PC/Columbia
	Vocational Education	9-12	Atari (CCC)/Apple II
	Other (Gifted (Logic))	9-12	Atari (CCC)

Description of Computer Use

All schools, K-12, use Computer Curriculum Corporation (CCC) labs w/Atari terminals to serve compensatory and remedial students in reading and mathematics. The CCC labs are also used to serve disadvantaged vocational education students in survival skills and the gifted math students in logic, both in grades 9-12. Elementary and middle schools continue to use very limited numbers of Commodore 64's and Apples in computer literacy, reading, language arts, and mathematics. The IBM PC and Columbia labs at the high school continue to be used for computers programming/information processing in the Business Education Department.

School and District Office Computers: Future Plans

- Expansion of CCC/Atari labs (additional units) -- all levels.
- Installation/expansion of Pathways/OSIRIS networks -- middle schools.
- Installation of networks -- district office.
- Installation of "point-of-sale" school lunch programs -- middle schools, one elementary school.
- Installation of modems for data transmission to SDE -- all levels.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	207	139	22	46	61
District Office	7	0	7	0	6

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Lee Kathy Jackson EIA Coordinator P.O. Box 507 Bishopville, SC 29010 Phone: 484-5391	Computer Literacy	K-12	Apple/TRS-80
	Reading /Language Arts	K-12	Apple/TRS-80
	Mathematics	K-12	Apple/TRS-80
	Business Education	10-12	Apple
	Other (Gifted & Talented)	8-12	Apple IIgs

Description of Computer Use

Computers are used in the elementary, middle, and secondary grade levels to assist students in language arts and mathematics. Prescription Learning Labs are used in elementary, middle, and high schools for students in compensatory and Chapter I programs. Governor's Labs are also used in the high schools for remediation. MECC software is available to all schools for the purpose of integrating computers in the curriculum.

School and District Office Computers: Future Plans

- Expansion of computer-assisted instruction in grades K-12 with additional Apple microcomputers or computer labs.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	254	230	14	10	72
District Office	10	0	10	0	10

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Lexington 1 Tom Cranmer Coordinator, Data Processing P.O. Drawer 1869 Lexington, SC 29072 Phone: 359-4178	Computer Literacy Computer Programming Reading /Language Arts Mathematics Business Education	4-10 8-12 1-12 1-12 1-12	Apple IIe/IIc Apple IIe/IIc Apple IIe Apple IIe IBM

Description of Computer Use

All elementary schools have Prescription Learning Labs for reading and math. In addition, schools have labs to reinforce the basic skills. Computer literacy begins at the middle school level. Secondary students are involved in computer literacy, programming, vocational, and instruction labs. High schools have Governor's Remediation Initiative Labs and WICATS Labs.

School and District Office Computers: Future Plans

- Update WICAT Labs, update Governor's Remediation Labs.
- Computer literacy will continue to be taught at the middle school level.
- Keyboarding will be implemented at the sixth grade level.
- Computer labs will continue to be offered.
- District-wide computer instructional plan implemented.
- Staff development training for teachers will be continued through USC courses and teacher-taught computer workshops.
- Additional computers will be purchased to reinforce basic skills in grades 1-12 in reading and math.
- Additional computers will be purchased to increase computer-pupil ratio and expand computer literacy at the elementary level.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	429	372	45	12	155
District Office	12	0	12	0	12

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Lexington 2 Jimmy L. Quinn, Ph.D. Director, Computer Services 715 Ninth Street West Columbia, SC 29169 Phone: 796-4708	Computer Literacy	7	WICAT
	Computer Programming	9-12	Apple II/IBM Compatible
	Reading /Language Arts	1-12	WICAT/Apple II/ IBM PCjr/ IBM Compatibles
	Science	1-12	Apple II/IBM Compatible
	Mathematics	1-12	WICAT/Apple II/IBM Compatible
	Social Studies	1-12	Apple II
	Tool (word processing, etc.)	9-12	Apple II/IBM Compatible
	Business Education	9-12	Apple II/IBM Compatible
	Vocational Education	9-12	Apple II/IBM Compatible

Description of Computer Use
WICAT labs in middle schools provide the primary CAI effort in the district. Business courses in high school are being revised to allow students to work with a variety of hardware and software. CAI in elementary schools tend to concentrate on isolated instructional objectives, where the computer is another audio-visual aid.

School and District Office Computers: Future Plans
- New SDE policies are driving the district effort to provide all keyboarding instruction on computers in secondary schools. Airport High School plans to offer keyboarding to all its freshmen next year.
- The district plans the creation of several extensive computer networks in the high schools. These will be dedicated to the support of instruction.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	474	397	52	25	242
District Office	55	24	31	0	30

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Lexington 3 Dr. William E. Black Assistant Superintendent 707 E. Columbia Avenue Batesburg, SC 29006 Phone: 532-9289	Computer Literacy	9-12	CCC/Atari/Apple II/IIe
	Reading /Language Arts	2-8	CCC/Atari/Apple II/IIe
	Mathematics	2-8	CCC.Atari/Apple II/IIe

Description of Computer Use
CCC/Atari computers are used in Basic Skills Labs in grades 2-8.

School and District Office Computers: Future Plans
- CCC/Atari computers for Basic Skills Labs in grades 9-12.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	125	118	5	2	41
District Office	2	0	1	1	2

District/Contact	School Computers		
	Instructional Uses	Grade Span	Brand/Model
Lexington 4 Charles Studstill Assistant Superintendent, Technology P.O. Box 569 Swansea, SC 29160 Phone: 568-4158	Computer Literacy	1-8	IBM PS-2/Apple IIe/IBM PCjr
	Computer Programming	5	Apple IIe
	Science	12	IBM PS-2
	Mathematics	12	IBM PS-2
	Social Studies	7	IBM PS-2
	Tool (word processing, etc.)	10-12	IBM PS-2
	Business Education	11-12	IBM PS-2

Description of Computer Use
Fifteen-station IBM network in place at Swansea High School used for various learning activities.

School and District Office Computers: Future Plans
- Future plans are to put a computer on every teacher's desk. Goal is to have teachers serve as computer role models.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	86	55	23	9	12
District Office	14	0	14	0	6

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Lexington 5 Aleda R. Anderson Coordinator, Computer Education P.O. Box 938 Ballentine, SC 29002 Phone: 781-0457	Computer Literacy	1-12	*Apple IIe & IBM PC are Mrs. Aleda
	Computer Programming	3-12	used throughout the instructional
	Reading /Language Arts	K-12	program.
	Science	K-12	
	Mathematics	K-12	*Note: District has its own
	Social Studies	K-12	in-house maintenance and
	Foreign Language	8-12	repair program and is trained
	Tool (word processing, etc.)	2-12	as a servicing agent implement
	Business Education	10-12	through the Computer
	Vocational Education	10-12	Technology Course
	Other (Remedial)	K-12	(Voc. Ed.).

Description of Computer Use

Elementary: Computer experiences for students are integrated into the existing instructional programs rather than through pull-out computer programs. (i.e., All first and second grade students receive computer keyboarding training as part of their language arts program.) Word processing begins in second grade and is introduced through LogoWriter software; in sixth grade students use Appleworks integrated software. Robotics is implemented in grades 3-5 through the science curriculum using LegoLogo. All fifth grade students create computer graphics as part of their fifth grade

Middle-Jr.: Labs and individual classroom systems offer opportunities for word processing, CAI and computing programming. Desktop publishing is part of language instruction.

Secondary: Students have access to the Math/Science Lab, Journalism Computers and select courses from Introduction to Computers, computer Science I (BASIC), Data Processing, computer Typing/Keyboarding, Computerized Accounting and computer Technology (Maintenance and Repair). CAI is used in all areas of curriculum and for preparation in academic competition.

School and District Office Computers: Future Plans

- Elementary-Kindergarten: A computer strand will be developed and added to the kindergarten curriculum.
- Secondary-Writing Lab.: Secondary education will include a writing lab with word processing software for creative writing.
- All-Media Automation: Catalog stations will be networked to a file server so students may access an on-line catalog search.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	588	476	66	46	178
District Office	31	2	29	0	27

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
McCormick Marsha DuPre Guidance Counselor/ Pathways Coordinator P.O. Box 458 801 Carolina Street McCormick, SC 29835 Phone: 465-2243	Computer Literacy	9-12	Apple IIe
	Computer Programming	9-12	Apple IIe
	Reading /Language Arts	K-12	Apple IIe
	Science	1-8	Apple IIe
	Mathematics	1-12	Apple IIe
	Social Studies	1-12	Apple IIe
	Foreign Language	9-12	IBM PC
	Business Education	9-12	IBM PC
	Vocational Education	9-12	Apple IIe
	Special Education		Apple IIe

Description of Computer Use
Apple IIe's are used in all schools for instructional use. IBM PCs are used in the business education department at the high school level (9-12). NCRs are used in elementary, middle, and high school for administrative use.

School and District Office Computers: Future Plans
- District is in the process of purchasing modems for the district office and all schools. Expect modems to be operational by July 1, 1989. Will be for administrative use.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	183	169	8	6	37
District Office	3	0	3	0	3

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Marion 1 Albert A. Blake Director of Operations 616 Northside Avenue Marion, SC 29571 Phone: 423-1811	Computer Literacy	K-12	Apple IIe/IIgs/TRS-80 III & IV
	Computer Programming	9-12	Apple IIe/TRS-80 III & IV
	Reading /Language Arts	K-12	Apple IIe/IIgs/CCC
	Science	K-12	Apple IIe
	Mathematics	K-12	Apple IIe/IIgs/CCC/TRS-80 III & IV
	Social Studies	K-12	Apple IIe
	Foreign Language	9-12	Apple IIe

Description of Computer Use
All elementary students are given access to computers on limited basis; Chapter I remedial and compensatory math studies are receiving CAI using CCC (grades 3-12). Chapter I students in reading also use CAI with CCC. Students in grades 9-12 may also elect to take Introductory Computer Course and an Introduction to Pascal.

School and District Office Computers: Future Plans
- To continue to more fully utilize the available technology.
- Expand the use of MECC materials and CAI through updated technology using CCC.
- Additional computers and printers will be purchased.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	141	132	8	1	47
District Office	9	0	9	0	9

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Marion 2 James H. Hall, Jr. Elementary Curriculum/ Federal Programs Coordinator P.O. Box 689 Mullins, SC 29574 Phone: 526-2181	Computer Literacy	9-11	Radio Shack Models III/IV/ Tandy 1000/Apple IIe
	Reading /Language Arts	1,4-11	IBM Model 25/Apple IIe
	Mathematics	3-11	Apple IIe

Description of Computer Use
The elementary students have access to Apple IIe in classrooms and libraries. Reinforcement and practice is provided for reading and math. Provide secondary with more reading and math practice, as well as SAT and PSAT practice. The IBM program Writing to Read has been installed in the 1st grade at North Mullins Primary for use with EIA Readiness students.

School and District Office Computers: Future Plans
- Administrative OSIRIS training spreading throughout the district. An IBM Write-to-Read lab is planned for use with first-grade students who do not test ready on CSAB.
- The use of word processing helps develop recognition and practice using reading skills. The Write to Read program takes advantage of this to develop beginning reading and writing skills.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	240	226	11	3	51
District Office	15	0	7	8	10

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Marion 3 Rachel J. Mason Coordinator, Special Services P.O. Drawer 439 Rains, SC 29589 Phone: 423-2891	Computer Literacy	9-12	TRS-80
	Reading /Language Arts	1-12	Apple IIe
	Science	1-8	Apple IIe
	Mathematics	1-12	Apple IIe
	Social Studies	1-8	Apple IIe
	Business Education	9-12	TRS-80
	Vocational Education	9-12	Apple IIe

Description of Computer Use
Computers are available for use by students in individual classes, library computer centers, and in special classes designed to remediate the math and reading of students who score below standard in areas of mathematics and reading in grades 1-12. Computers are available in the main office of all schools for office management and business functions.

School and District Office Computers: Future Plans
- Local area networks will be installed in schools in the not-too-distant future to provide all teachers access to the main frame which contains student data, teacher data, grades, attendance, etc. Modems have been purchased for the middle and high school.
- We expect to utilize computer to inform parents of student absences, PTA meetings, etc. We expect to use the PC Anywhere Software to accomplish this task.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	52	47	4	1	18
District Office	3	0	3	0	3

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Marion 4 Jean W. Pearson Director, Special Services Route 1, Box 499 Gresham, SC 29546 Phone: 362-0331	Reading /Language Arts Mathematics Business Education Vocational Education Other (specify)	1-12 1-12 9-12 11-12 8-12	Commodore 64/Apple IIe Commodore 64/Apple IIe IBM Personal Typing System Apple IIe Apple IIe

Description of Computer Use
Britton's Neck High School currently participates in the Governor's Remedial Reading and Math lab program. Britton's Neck Elementary School has a Chapter I Reading Lab that serves grades 1-7.

School and District Office Computers: Future Plans
- Marion School District 4 plans to purchase a computer management system at the elementary level.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	35	24	2	9	13
District Office	6	0	6	0	1

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Marlboro Herbert H. Gould Director, Elementary and Middle Schools P.O. Box 947 Bennettsville, SC 29512 Phone: 479-4016	Computer Literacy Reading /Language Arts Mathematics Business Education Vocational Education	1-12 1-12	TRS-80 Models II & IV TRS-80 Model 4/Apple IIe TRS-80 Models II & IV/Apple IIe TRS-80 Model IV IBM PC/IBM Model 30

Description of Computer Use
Computer awareness programs have been designed for students in grades 1-12. Instructional programs in reading and math are provided for students enrolled in remedial/compensatory programs (grades 1-12) and Chapter I students (grades 4-8). Counselors are using computers for career information and SAT practice activities. Computers are used for data processing, business management and drafting (grades (11-12).

School and District Office Computers: Future Plans
- The school district staff development plan are designed toward the appropriate software at all levels.
- The district office maintains personnel records, and plans are to include instructional inventories and internal accounts. We are also participating in a program to reduce paper work.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	376	346	28	2	99
District Office	10	0	10	0	6

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Newberry Robert L. Hollis Director, Planning & Development P.O. Box 718 Newberry, SC 29108 Phone: 276-3686	Computer Literacy	4-5	Apple IIe
	Computer Programming	11-12	TRS-80
	Reading /Language Arts	4-8	Apple IIe
	Science	9-12	Apple IIe & IIgs
	Mathematics	4-12	Apple IIe & IIgs
	Tool (word processing, etc.)	10-12	TRS-80/IBM/Apple
	Business Education	10-12	TRS-80/IBM/Apple

Description of Computer Use
Math/Reading: 4-8—Apple IIe—all state comp/rem students
Math/Science: 4-12 —Apple IIe—all 9-12 grade math/science students and Gallman Elm. students
Math: 4-12—Apple IIe—state remedial students.
Programming: 11-12—TRS-80—11th-12th grade C.P. students
Tool: 10-12—TRS-80—10th-12th grade vocational students

School and District Office Computers: Future Plans

- Continue to add/update computer hardware in all schools as funds are available.
- Network D.O. stations and appropriate schools.
- Emphasis in primary grades will be in computer literacy.
- Other grades will use CAI in math, science and other subjects as appropriate.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	234	189	34	7	72
District Office	16	0	16	0	16

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Oconee Joe Rukat Math Coordinator P.O. Box 220 Walhalla, SC 29691 Phone: 638-4059	Computer Literacy	K-12	Commodore/Apple/IBM
	Computer Programming	9-12	Commodore/Apple/IBM
	Reading /Language Arts	K-12	Commodore/Apple
	Science	K-12	Commodore/Apple
	Mathematics	K-12	Commodore/Apple
	Tool (word processing, etc.)	9-12	IBM
	Business Education	8-12	149 IBM Computers
	Vocational Education	9-12	IBM

Description of Computer Use

Elementary: Over the past few years, Oconee School District has steadily increased their computer quantities to where 42 percent of our elementary schools have laboratories. Our primary concern in the elementary area is literacy. Our goal is to have every elementary student computer literate before they reach the middle school grades.

Middle/Junior: In the middle school area, we continue to emphasize literacy, but begin to address programming. All of our middle schools have IBM laboratories. Oconee County is participating in the State Vocational Education Consortium Program. Through this program, Oconee has been able to order a total of 130 IBM model 25 computers for student use and 5 IBM model 30 computers for teacher use this year which will be used in all five middle school laboratories. The goal is for every eight-grade student to have mastered keyboarding skills by the end of eighth grade. We will also use "PC VIEWERS" interfaced to the IBM model 30 units as our primary means of instruction, with Touch Typing Tutor as our support software.

High School: In the secondary schools, every school has a laboratory. We have increased each of their laboratories by 5 IBM model 25. In addition, 75 percent of the high schools are networked for administrative purposes.

School and District Office Computers: Future Plans

- Elementary: In the past, almost every school would purchase one or two computer systems with the use of Chapter 2 Block Grant Funds. Since this decision is made by the principal, and the demand for computerization has not diminished, we feel confident that computers will to be purchased at that normal rate.
- Middle/Junior: The South Carolina Education Consortium will continue for five more years and possibly provide additional equipment.
- Secondary: We will continue to expand our present computer laboratories by one or two computer systems.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	753	670	74	11	180
District Office	31	0	31	0	16

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Orangeburg 1 Patsy B. Williams Secretary P.O. Box 337 Springfield, SC 29146 Phone: 258-3418	Computer Literacy Computer Programming Reading /Language Arts Science Tool (word processing, etc.) Business Education Vocational Education	 11-12 1-12 1-12 11-12 11-12 9-12	 TRS-80/NCR/IBM Apple IIe Apple IIe TRS-80/NCR/IBM TRS-80/NCR/IBM Apple IIe

Description of Computer Use
Apple computers are used for instruction in reading/language arts, math (computer lab for remedial students) and in the vocational classes. Although the TRS-80, IBM and NCR computers are housed in the Business Department and used primarily by students in that department to learn word processing skills, the computers are available to any student who has time in their schedules to work them. Data processing is taught to 11th and 12th graders.

School and District Office Computers: Future Plans
- There are plans for the 1989-90 school year to have for teachers an on-site computer class.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	108	105	3	0	32
District Office	2	0	2	0	2

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Orangeburg 2 Bryant Reeves Assistant Superintendent P.O. Box 36 Bowman, SC 29018 Phone: 829-2981	Computer Literacy Reading /Language Arts Mathematics Business Education Vocational Education	K-12 1-12 1-12 9-12	Apple IIe/Commodore 64/ Commodore 8032 Apple IIc/IIe Apple IIc/IIe IBM PS2 Model 30 Apple IIc/IIe

Description of Computer Use
The new IBM PS2 Model 30 computers are used to teach typewriting in grades 9-12 and to teach adult vocational education courses. Apple computers are used for remediation in the Chapter 1 reading and mathematics activities in a computer lab for remedial students in grades 7-12 and in vocational courses for remedial students. The Commodore computers are used to teach computer literacy.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	59	57	2	0	19
District Office	7	5	2	0	7

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Orangeburg 3 Mulesh M. Swami Director, Mathematics P.O. Box 98 Holly Hill, SC 29059 Phone: 496-3288	Computer Programming	10-12	TRS-80 Model III
	Reading /Language Arts	K-12	Apple IIe/TRS-80 Color/ IBM PC/IBM PCjr/ IBM PS2(25)/Lanier/Commodore
	Science	1-8	Apple IIe/IBM PC
	Mathematics	1-12	Apple IIe/TRS-80 Color/IBM PC/ Rainbow
	Business Education	10-12	Lanier/IBM PC

Description of Computer Use

Computers are used in all kindergarten classes. Chapter I students have been using computers for reading and mathematics classes in Grades 2-6. Students in middle and secondary schools have limited access to computers; however, business students have an opportunity to work with computers in grades 10-12.

School and District Office Computers: Future Plans

- The district plans to purchase several computers for instruction in grades 8-12 this year. Each year, new computers will be acquired as funds become available. A well-organized plan is underway to train teachers for use at computers in classroom. Many teachers in the district have taken the course, "An Introduction to Computers for Educators."

- Writing-to-Read program will be used in all kindergarten classes during 1989-90. Chapter I students will continue to use the ICLS (Integrated Curriculum Learning System) from Ideal Learning in middle school reading and mathematics classes. A special effort is made to ensure that each teacher receives needed training for use of computers in his/her classes.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	199	189	8	2	47
District Office	5	1	3	1	5

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Orangeburg 4 John Herring Superintendent P.O. Box 69 Cordova, SC 29039 Phone: 534-8081	Computer Literacy	K-12	Apple IIe
	Mathematics	2-12	Apple IIe
	Business Education	10-12	Lanier

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	69	31	3	35	26
District Office	2	0	2	0	2

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Orangeburg 5 Louise H. Amos Coordinator, CAI/CMI/Pathways 578 Ellis Avenue Orangeburg, SC 29115 Phone: 534-5454	Computer Literacy	K-12	IBM—JR, AT, XT and PC
	Computer Programming	9-12	IBM PS/2 - Model 25, 30, 50, 60 and 80
	Reading /Language Arts	K-12	
	Science	2-12	
	Mathematics	K-12	
	Social Studies	1-4	
	Tool (word processing, etc.)	K-12	
	Business Education	9-12	COVEC
	Vocational Education	9-12	COVEC

Description of Computer Use

Courseware/software programs are provided in each content area at each grade level to supplement/enhance the regular curriculum for the same—Writing to Read, Teaching and Learning with Computers and PALS.

Second and fifth grade—Teaching and Learning with Computers—Language Arts/Math at second grade using Models 25's and various software packages: Language Arts in fifth grade.

School and District Office Computers: Future Plans

- Third-fourth grades: Relocate PCjr computers from Computer Literacy labs in middle schools to place three in each classroom for beginning "TLC" programs in these grades -- Language Arts.
- Complete renovation for Bennett and Belleville Middle Schools. School-wide network with 5-8 work stations per academic classroom; 1-2 in other areas such as music, health, PE, etc.
- Increased teacher inservice: Managing networked computers in individual classroom; integrating courseware fully.
- Relocate Apples in Computer AP-Programming Classes; purchase or move IBM-type machines into this lab.
- Continue project development in Library/Media Centers for computerized system.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	800	717	28	55	176
District Office	36	2	22	12	37

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Orangeburg 6 Pam Williams Coordinator, Pathways/ Payroll Clerk P.O. Box 640 North, SC 29112 Phone: 247-2162	Computer Literacy	10-12	Apple IIe
	Reading /Language Arts	Elem./9-12/ Rem.	Apple IIe/Tandy
	Science	Elem.	Apple IIe/Tandy
	Mathematics	Elem./9-12/Rem.	Apple IIe/Tandy
	Social Studies	Elem	Apple IIe/Tandy
	Tool (word processing, etc.)	10-12	Apple IIe
	Vocational Education	9-12	Apple IIe
	Other (SCOIS)	9-12	Apple IIe

School and District Office Computers: Future Plans

- We would eventually like computers in every classroom and hope that all students will have hands-on experience.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	25	19	4	2	12
District Office	1	0	1	0	1

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Orangeburg 7 Myrtle R. Hardwick Coordinator, Pathways P.O. Drawer L Elloree, SC 29047 Phone: 897-2211	Computer Literacy	K-12	Apple II/IBM PCjr
	Computer Programming	9-12	Apple II/IBM PCjr
	Reading /Language Arts	K-12	Apple II/IBM PCjr
	Science	K-12	Apple II/IBM PCjr
	Mathematics	K-12	Apple II/IBM PCjr
	Tool (word processing, etc.)	9-12	Apple II/IBM PCjr
	Business Education	9-12	Apple II/IBM PCjr
	Vocational Education	9-12	Apple II/IBM PCjr

Description of Computer Use

The above instructional uses are supplemental methods -- (CAI and Management)

School and District Office Computers: Future Plans

- All—Computer in every classroom.
- All students will have hands-on experience utilizing computers and software.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	50	44	6	0	12
District Office	5	0	5	0	5

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Orangeburg 8 Starr Bright Computer Coordinator/Teacher P.O. Box 248 Branchville, SC 29432 Phone: 274-8875	Computer Literacy	8-12	Lanier/Apple IIe/IIc/IIgs
	Computer Programming	12	Lanier
	Reading /Language Arts	5-12	Apple IIe/IIgs
	Science	8-12	Apple IIe/IIgs
	Mathematics	1-12	Apple IIe
	Foreign Language	10-12	Apple IIe
	Tool (word processing, etc.)	1-12	Lanier/Apple
	Business Education	10-12	Lanier

School and District Office Computers: Future Plans

- Purchase data display system for each school within the district.
- Network -- (OSIRIS) for administration in each school.
- Purchase additional computer for Pathways Coordinator.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	58	52	6	0	33
District Office	2	0	2	0	2

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Pickens Richard Gettys Director, Management Information Services Route 8, Box 375 Easley, SC 29640 Phone: 859-1405	Computer Literacy	7-12	Commodore 64/Apple IIe/IBM/NCR
	Computer Programming	8-12	Commodore 64/Apple IIe/IBM/NCR
	Reading /Language Arts	K-12	Commodore 64/Apple IIe/IBM/NCR
	Science	K-12	Commodore 64/Apple IIe/IBM/NCR
	Mathematics	K-12	Commodore 64/Apple IIe/IBM/NCR
	Social Studies	K-12	Commodore 64/Apple IIe/IBM/NCR
	Foreign Language	8-12	Commodore 64/Apple IIe/IBM/NCR
	Tool (word processing, etc.)	7-12	Commodore 64/Apple IIe/IBM/NCR
	Business Education	9-12	Commodore 64/Apple IIe/IBM/NCR
	Vocational Education	7-12	Commodore 64/Apple IIe/IBM/NCR

Description of Computer Use

The primary use is as a supplement to instruction (enhancement of instruction) at as many levels as possible. Some programming (LOGO) is done at the elementary level; however, most programming is at the secondary level with emphasis on computer science through BASIC or PASCAL using mathematics.

School and District Office Computers: Future Plans

- A future goals is to have each school with a computer lab and sufficient mobile computers for classroom use. A long term goal includes a computer with large screen monitor in every classroom starting with grades 7-12. Workshops will be increased to provide for more extensive teacher use.
- Each student should learn how to use the computer as an appropriate tool. As more sophisticated programs are available, more CAI may be used.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	620	481	107	33	303
District Office	23	0	23	0	19

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Richland 1 Jim Hockman Coordinator, Instructional Computing & Technology 1616 Richland Street Columbia, SC 29204 Phone: 733-5304	Computer Literacy	K-12	Apple IIe/IIgs/IBM PCjr
	Computer Programming	2-12	Apple IIe/IIgs/IBM PCjr
	Reading /Language Arts	K-12	Apple IIe/IIgs/IBM PCjr
	Science	4-12	Apple IIe/IIgs/IBM PCjr
	Mathematics	K-12	Apple IIe/IIgs/IBM PCjr
	Social Studies	4-12	Apple IIe/IIgs
	Foreign Language	9-12	Apple IIe/IIgs
	Tool (word processing, etc.)	K-12	IBM PC/PCjr/05/2,Model 25 Apple IIe/IIgs
	Business Education	9-12	IBM PC
	Vocational Education	9-12	IBM PC

Description of Computer Use

Computers are available to students in 75 labs, and in classroom and media centers throughout the district. The thrust for computer use is to integrate the technology into the regular instructional program. Courses are offered to middle and high school students. Students in business education, Chapter I, EIA, special education and gifted programs use computers on a regular basis. Eighteen networked Apple and IBM labs have been recently added to the district program.

School and District Office Computers: Future Plans

- Based on past trends it is anticipated that approximately 100 computers will be added to the instructional program. Training is provided through several offices in the district, including the #1 Teacher Center. Courses for graduate and certificate renewal credit are offered on a regular basis. Software is available for teachers to review and use on a checkout basis in their classrooms. Six new comprehensive, integrated labs providing instruction in reading and math will be added in 1989.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	2,018	1,805	107	106	771
District Office	140	35	79	26	79

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Richland 2 Deborah G. Randolph Manager, Computer Services 6831 Brookfield Road Columbia, SC 29026 Phone: 787-1910	Computer Literacy	All	Varies-mostly Apple IIgs
	Computer Programming	10-12	IBM
	Reading /Language Arts	1-2	IBM
	Mathematics	2	IBM
	Business Education	9-12	Mostly IBM
	Vocational Education	9-12	Mostly IBM

Description of Computer Use

IBM Writing to Read Labs at grade 1—Computers in Classroom at grade 2—Take Home Computer Program

School and District Office Computers: Future Plans

- Expanding Computers in Classroom (All).
- Pilot district for Classroom Management System (SDOE).

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	580	452	73	87	209
District Office	27	0	27	0	22

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Saluda Kay Rankin Coordinator, Basic Skills & Chapter One 404 N. Wise Road Saluda, SC 29138 Phone: 445-8064	Computer Literacy	1-12	Apple IIe
	Computer Programming	7-12	Apple IIe
	Reading /Language Arts	K-12	Apple IIe
	Science	K-12	Apple IIe
	Mathematics	K-12	Apple IIe
	Social Studies	K-12	Apple IIe
	Foreign Language	9-12	Apple IIe
	Tool (word processing, etc.)	9-12	Apple IIe
	Business Education	9-12	Apple IIe
	Vocational Education	9-12	Apple IIe
	Other (Gifted)	3-10	Apple IIe/IIgs
	Other (Resource)	1-12	Apple IIe

Description of Computer Use
All elementary students are given limited access to computers. In compensatory, remedial and Chapter I classes, computers are used for drill and practice. For the first time this year, grades 1-12 also received a computer literacy course in the Chapter I classes and a selected compensatory class. Kindergarten and first grade students have CAI in math and reading. Computer instruction provides enrichment in G/T classrooms. The middle school has a computer lab available to all teachers and students. At the high school, computers are used to teach word and data processing, computer literacy, computer science, and CAI in math & consumer homemaking. A computer lab is available to all teachers and students.

School and District Office Computers: Future Plans
- In FY90, we will install a CCC lab for reading and math remedial classes. We anticipate buying 17 computers for the lab.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	133	119	4	10	59
District Office	5	0	5	0	5

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Spartanburg 1 Don Denton Coordinator of Business P.O. Box 218 Campobello, SC 29232 Phone: 472-2846	Computer Literacy	7-12	Apple IIe/IBM PC
	Computer Programming	11-12	Apple IIe
	Reading/Language Arts	1-6	Apple IIe
	Tool (word processing, etc.)	10-12	IBM PC
	Business Education	10-12	IBM PC

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	215	188	17	10	55
District Office	4	0	3	1	2

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Spartanburg 2 Joan E. Narron Supervisor, Teacher Incentive Program 3655 Boiling Springs Road Spartanburg, SC 29303 Phone: 578-0128	Computer Literacy	10-12	Apple IIe
	Reading /Language Arts	1-8	Apple IIe
	Science	4-12	Apple IIe
	Mathematics	K-12	Apple IIe
	Social Studies	K-8	Apple IIe
	Business Education	10-12	IBM

Description of Computer Use

Elementary - There are computer labs in four of our six elementary schools. The labs are used for instruction in reading/language arts, science, social studies and mathematics.
Middle - Computers are used for drill and practice.
Secondary - Computers are used for word processing in business education and for application of spreadsheets and databases in computer literacy courses.
Pathways Project is being used at all schools in the district.

School and District Office Computers: Future Plans

- Computer usage will increase at all levels with the addition of more computers and the establishment of more computer labs (as funds permit).

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	314	261	24	29	105
District Office	21	0	21	0	16

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Spartanburg 3 Ann White Director, Federal Programs & Administrative Assistant P.O. Box 267 Glendale, SC 29346 Phone: 579-3330	Computer Literacy	10-12	Apple IIe/IIgs
	Reading /Language Arts	K-6	Apple IIe/IIgs
	Science	4-12	Apple IIe/IIgs
	Mathematics	K-12	Apple IIe/IIgs
	Social Studies	K-8	Apple IIe/IIgs
	Business Education	10-12	IBM

Description of Computer Use

Elementary students have access to computers in the classroom and in school library media centers. Computers are used for computer assisted instruction. Math and English labs are available at the secondary level and make extensive use of computers. Computer literacy is taught in all of these programs.

School and District Office Computers: Future Plans

- The district is evaluating software and equipment for the installation of remedial labs at the elementary level. School library media centers are being automated at all levels.

- At the high school, computers are used to teach word processing, computer literacy and computer science. Compensatory, remedial and Chapter I classes use computers for drill and practice. All special education classes have computers to assist with instruction.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	178	129	19	30	114
District Office	10	0	9	1	12

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Spartanburg 4 Connie R. McClain Instructional Supervisor P.O. Box 669 Woodruff, SC 29388 Phone: 476-3186	Computer Literacy	1-12	Apple
	Computer Programming	7-12	Apple
	Reading /Language Arts	K-12	Apple
	Mathematics	K-12	Apple
	Tool (word processing, etc.)	7-12	Apple
	Business Education	11-12	Apple

Description of Computer Use
Computer literacy is provided for students. Computers are used to remediate students in mathematics and reading. Computer literacy and word processing skills are taught in computer labs (4-6), (7-9) and (10-12).

School and District Office Computers: Future Plans
- Expand computer program to include a lab at Woodruff Primary School.
- Expand OSIRIS Program.
- Upgrade hardware and software as technology changes.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	124	73	8	43	43
District Office	5	0	5	0	4

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Spartanburg 5 Sid Crumpton Assistant Superintendent P.O. Box 307 Duncan, SC 29334 Phone: 439-6326	Computer Literacy	1-12	Apple IIe
	Computer Programming	11-12	Apple IIe
	Reading /Language Arts	9-12	Apple IIe
	Science	9-12	Apple IIe
	Mathematics	9-12	Apple IIe
	Social Studies	9-12	Apple IIe
	Foreign Language	9-12	Apple IIe
	Tool (word processing, etc.)	11-12	IBM
	Business Education	11-12	IBM
	Vocational Education	9-12	IBM/IBM PCjr

School and District Office Computers: Future Plans
- We plan to place modems in all schools in the 89-90 school year. In addition, we hope to establish an electronic bulletin board district-wide. The modems will also allow us to use more of the services currently available through the State Department (TRIMS, CUFAN, etc.). — All Levels.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	212	168	6	38	56
District Office	9	0	9	0	8

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Spartanburg 6 Judith A. Antley Mathematics/Testing/ Pathways Coordinator 1493 W. O. Ezell Blvd. Spartanburg, SC 29301 Phone: 576-4212	Computer Literacy	9-12	IBM or Compatible
	Computer Programming	9-12	IBM or Compatible
	Reading /Language Arts	1-12	CCC
	Mathematics	1-12	CCC
	Tool (word processing, etc.)	9-12	IBM or Compatible
	Business Education	9-12	IBM
	Vocational Education	9-12	Tandy/IBM
	Special Education		Apple

Description of Computer Use
Apples are also used throughout the district in teachers' rooms or grouped together in the media center. Also, some IBM compatible PCs are used.

School and District Office Computers: Future Plans
- Expand classroom use with Pathways project.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	431	370	34	27	130
District Office	9	0	9	0	12

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Spartanburg 7 Carol Ellis Computer Coordinator P.O. Box 970 Spartanburg, SC 29304 Phone: 594-4400	Computer Literacy	3-12	Apple IIe
	Computer Programming	3-12	Apple IIe
	Reading /Language Arts	1-6	Apple IIe
	Science	10-12	Apple IIe
	Mathematics	1-12	Tandy/Apple IIe
	Social Studies	1-6	Apple IIe
	Tool (word processing, etc.)	10-12	Apple IIe/Lanier
	Business Education	10-12	Apple IIe/Lanier

School and District Office Computers: Future Plans
- Future plans include applications included in the State's Pathways Project and the Cons Project.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	749	602	71	77	160
District Office	75	41	31	5	21

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Sumter 2 J. Frank Baker Pathways Coordinator 1345 Wilson Hall Road Sumter, SC 29151 Phone: 469-6900	Computer Literacy	K-12	Apple IIe
	Computer Programming	10-12	IBM PC/XT
	Reading /Language Arts	2-12	Apple IIe
	Science	6-12	Apple IIe
	Mathematics	K-12	Apple IIe
	Social Studies	8-12	Apple IIe
	Tool (word processing, etc.)	9-12	IBM PC/Xt
	Business Education	9-12	IBM PC/XT
	Vocational Education	9-12	IBM PC/XT

Description of Computer Use
Ten WICAT mainframe systems at 10 elementary schools with 30 workstations each—serve 3,600 students per day. The lab is also used for summer enrichment in writing and mathematics. Chapter I reading and math using EDL and Prescription Learning curriculum program.

School and District Office Computers: Future Plans

- Expand WICAT
- Fully implement Pathways
- Continue with on-going OSIRIS training and staff development
- Implement TRIMS for textbook management.
- The handicap program will expand the use of microcomputers.
-

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	369	318	39	12	111
District Office	19	0	0	19	12

District/Contact

Sumter 17
Lawrence Williams
Coordinator of Media and Technology
P.O. Box 1180
Sumter, SC 29151
Phone: 469-8536

School Computers

Instructional Uses	Grade Span	Brand/Model
Computer Literacy	K-12	Apple IIe/IIgs/IBM PCjr/PC
Computer Programming	K-12	Apple IIe/IIgs/IBM PCjr
Reading /Language Arts	K-12	Apple IIe
Science	K-12	Apple IIe
Mathematics	K-12	Apple IIe
Social Studies	K-12	Apple IIe
Foreign Language	K-12	Apple IIe
Tool (word processing, etc.)	K-12	Apple IIe/IIgs/IBM PCjr/PC
Business Education	9-12	IBM PC
Vocational Education	9-12	IBM PC

Description of Computer Use
The schools' MS-DOS computers are networked to each administrator's office. All district schools use the OSIRIS software for their administrative activities. The schools and the District Media Center provide training for software products for administrative and instructional use. A complete IBM Write to Read lab is at Alice Drive Elementary and 5 schools use Prescription Learning resources. The schools have access to computer labs and computers on carts in each school. These are used on all levels of instruction. The high school has a semester course in computer math and a two-semester course in data processing. A district computer catalog is published containing all the software titles.

School and District Office Computers: Future Plans
- Continue to implement the Pathways project with additional modems and training. Expand our instructional software resources and available hardware.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	305	214	58	33	135
District Office	23	11	1	11	16

School Computers

District/Contact	Instructional Uses	Grade Span	Brand/Model
Union William (Billy) Shaw Pathways Coordinator P.O. Box 907 Union, SC 29379 Phone; 429-1757	Computer Literacy	K-12	Apple IIe/IIgs/IBM PC/IBM Compatible
	Computer Programming	9-12	Tandy/IBM PC
	Reading /Language Arts	K-12	Apple IIe/IIgs/ IBM PC
	Science	K-12	Apple IIe/IIgs
	Mathematics	K-12	Apple IIe/IIgs
	Social Studies	K-12	Apple IIe/IIgs
	Tool (word processing, etc.)	9-12	IBM PC/Tandy/IBM Compatible
	Business Education	9-12	IBM PC/Tandy/IBM Compatible
	Vocational Education	9-12	IBM PC/Tandy/IBM Compatible

Description of Computer Use
The high schools and junior high school are networked within their school. All schools in district use OSIRIS software. All schools in the district have access to computer labs and the high schools teach keyboarding classes and other business computer courses taught are with MS-DOS computers. At Union High School, classes are taught in Lotus, Dbase, Wordstar and Pagemaker. Modems are used for administrative purposes.

School and District Office Computers: Future Plans
The district office will be networked using MS-DOS and Macintosh computers. Also, the middle school will be networked before the beginning of next school year for the purpose of providing work stations for classes and teachers for attendance and grade reporting using OSIRIS software. Modems will also be installed in every school in the district. The modems will be used the MS-DOS computers.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	307	0274	028	5	94
District Office	13	1	12	0	9

School Computers

District/Contact	Instructional Uses	Grade Span	Brand/Model
Williamsburg Judy Fennell Coordinator of Media Services 423 School Street Kingstree, SC 29556 Phone: 354-5571	Computer Literacy	K-12	Apple IIe/IIgs/TRS-80/IBM
	Computer Programming	9-12	IBM/TRS-80
	Reading /Language Arts	K-12	Apple IIe/IIgs/Atari
	Science	K-12	Apple IIe/IIgs
	Mathematics	K-12	Apple IIe/IIgs
	Social Studies	K-12	Apple IIe/IIgs
	Foreign Language	9-12	Apple IIe/IIgs
	Tool (word processing, etc.)	4-12	TRS-80/IBM/Apple IIe
	Business Education	9-12	Apple IIe/IBM/KayPro
	Vocational Education	9-12	Apple IIe/IIgs/IBM/Tandy/ TRS-80

Description of Computer Use
Additional CCC labs have been added. We are doing attendance, discipline and report cards by computers. Schools have been networked to district office.

School and District Office Computers: Future Plans
- We are expanding our CCC labs so that a whole class can work at one time.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	573	529	18	28	125
District Office	16	9	7	0	18

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
York 1 Jan James Computer Coordinator P.O. Drawer 770 York, SC 29745 Phone: 684-9916	Computer Literacy	1-12	Apple IIe/Atari/CCC SLS-
	Computer Programming	9-12	Apple/Tandy
	Reading /Language Arts	1-12	CCC SLS-1
	Science	9-12	Apple IIe/Tandy
	Mathematics	1-12	CCC SLS-1
	Social Studies	7-8	Apple IIe
	Foreign Language	9-12	Apple IIe
	Tool (word processing, etc.)	10-12	Tandy/Mac
	Business Education	10-12	Tandy/Mac
	Vocational Education	10-12	Tandy/Mac

Description of Computer Use

We have labs in Harold C. Johnson Elementary (3-6 grades) and York Junior High School (7-8 grade) when teachers sign up for students in their class to use when needed. Jefferson Primary School (K-2) and Hickory Grove-Sharon (1-6) have computers available for teachers to either check out or come in and use.

School and District Office Computers: Future Plans

- We hope to expand our CAI labs in all schools and add graphic servers to Hickory Grove - Sharon Elementary and York Comprehensive High School.
- This year we added graphic services to our three Chapter 1 schools and audio at the primary and elementary Chapter I schools. Chapter I schools are: Jefferson Primary School K-2; Harold C. Johnson, 3-6; and York Junior High, School 7-8.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	234	215	17	2	89
District Office	10	0	9	1	10

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
York 2 William Lowe, Jr Director, Computer Services P.O. Box 99 Clover, SC 29710 Phone: 222-7191	Computer Literacy	5-12	Apple IIe
	Computer Programming	9-12	Apple IIe/NCR
	Reading /Language Arts	1-12	Atari/CC
	Mathematics	1-12	Atari/CCC
	Tool (word processing, etc.)	7-12	Apple IIe/NCR
	Business Education	9-12	Apple IIe/NCR
	Vocational Education	9-12	Apple IIe/Acer/NCR

Description of Computer Use

Computer literacy taught to all 5th and 6th graders. Computer programing, word processing, AP, and others in 9-12 grades. CCC program in 1-12 for remediation.

School and District Office Computers: Future Plans

- Plan to get Pilot Classroom Management Program for state and from this we plan to put a computer and printer in each teacher's classroom. Network each to a source in each school will all student information on it.
- Plan to start teaching keyboarding skills in grade 5th and 6th next year (1989-90) and word processing grades 7 and 8.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	305	223	71	11	116
District Office	15	0	15	0	10

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
York 3 Julia Robbins Supervisor of Instruction P.O.Drawer 10072 Rock Hill, SC 29730 Phone: 324-5360	Computer Literacy	K-12	Apple IIe/IIgs
	Computer Programming	K-12	Apple IIe/IIgs
	Reading /Language Arts	K-12	Apple IIe/IIgs
	Science	1-12	Apple IIe/IIgs
	Mathematics	K-12	Apple IIe/IIgs
	Social Studies	1-12	Apple IIe/IIgs
	Foreign Language	9-12	Apple IIe/IIgs
	Tool (word processing, etc.)	1-12	Apple IIe/IIgs/Macintosh
	Business Education	10-12	Epson/Apple IIe/Systel Word/ SCS-XT10 Compatible
	Vocational Education	10-12	Franklin/Tandy 1200HD/ Zenith 100/Apple IIe/ Compugrathic MCS-5

Description of Computer Use
Teachers use computer-assisted instruction across subject and grade levels to assist students in mastering course content. A K-6 computer curriculum has been implemented district-wide. Students receive instruction in computer literacy, keyboarding and programming Logo. Students in grades 7-8 have an opportunity to take a Computer Applications and BASIC Programming course. High school electives include an introductory applications and programming course in BASIC, a computer math course, and an advanced placement computer science course.

School and District Office Computers: Future Plans
- The district plans to purchase computer equipment and software to implement a remedial language arts and mathematics computer labs at the elementary and secondary levels. The district will continue to offer computer courses for teachers to assist teachers in using the computer as a tool and in incorporating the computer in their classroom instruction.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	647	531	69	49	229
District Office	24	0	24	0	20

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
York 4 Dan H. Jones Director of Special Services P.O. Box 369 Fort Mill, SC 29715 Phone: 548-2527	Computer Literacy	3-12	Apple IIe/IIc
	Computer Programming	1-12	Apple IIe/IIc
	Reading /Language Arts	1-12	Apple IIe/IIc
	Science	6-8	Apple IIe/IIc
	Mathematics	1-12	Apple IIe/IIc
	Vocational Education	9-12	Apple IIe/IIc

Description of Computer Use
Computer literacy is covered in grades 3-12. Elementary and secondary programs meet criteria for remedial and compensatory education and are served by both Computer Assisted Instruction and Computer Managed Instruction.

School and District Office Computers: Future Plans
- York 4 (Fort Mill School District) is participating in the pilot of the CMS program.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	195	151	041	3	54
District Office	1	0	1	0	9

District/Contact School Computers	School Computers Instructional Uses	Grade Span	Brand/Model

S.C. For Deaf & Blind
Howard Chapman
Director of Information Technology
Cedar Springs
Spartanburg, SC 29302
Phone: 585-7711

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	45	39	4	2	17
District Office	13	0	13	0	17

School Computers

District/Contact	Instructional Uses	Grade Span	Brand/Model
S.C. Youth Services Wallace N. Meggs, Jr. Administrative Program Analyst 4900 Broad River Road Columbia, SC 29210 Phone: 737-8913	Reading /Language Arts	6-12	Apple IIe/IIgs/ IBM PC 25 and PC 30
	Science	6-12	Apple IIe/IIgs
	Mathematics	6-12	Apple IIe/IIgs
	Social Studies	6-12	Apple IIe/IIgs
	Business Education	9-12	IBM PS/2 Model 25
	Vocational Education	9-12	Apple IIe/Macintosh

Description of Computer Use

1. All: All grades are served by computer-assisted instruction and some classes utilize limited computer managed instruction.

2. All: A computerized system is in place which scores the California Achievement Test, correlated the results to BSAP, and prints out a mastery-non-mastery report for use in remedial and regular classrooms immediately after a new student enters a district school.

3. All: Implemented a six workstation Novell network at Birchwood High School and a four workstation at Willow Lane Jr. High School.

4. All: A custom IEP generator program is in use by all Districts Special Services staff.

5. All: Implemented a Sun TOPS network at the District Office which presently networks one NCR 916, three Apple Macintosh computers, a laser printer, and a color dot matrix printer.

6. Sec.: Implemented electronic (desktop) publishing in the Graphic Arts vocational program utilizing Apple Macintosh, laser printer, and optical scanner. The program also has access to video camera digitizer.

7. Mid./Sec.: Implemented small IBM PALS Labs at Birchwood High and Willow Lane Jr. High Schools for Chapter I/remedial reading students.

School and District Office Computers: Future Plans

- All: The remedial management program (#2 above) is being written to run on the Novell Networks utilizing the NCS optical sheet readers. (Scheduled for Summer 89)
- All Install a two-station Novell network at the Willow Lane Annex (Agency's R&E Center) by Fall of 1989 and upgrade District Office network to include two additional workstations and add Novell network software/hardware.
- All: Tie all four of the District's networks into the Agencies Client Folder System, a statewide network which is a pilot project for state agencies and is under development. This system will utilize optical scanners to FAX records and will maintain all records on a networked mini computer. (Fall/Spring 1989)
- All Increase the number of students which can be served by the PALS Labs. (Fall 1989)

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	149	125	15	9	63
District Office	6	0	6	0	3

SPECIAL SURVEY ADDENDUM TO 1988-89 STATEWIDE COMPUTER SURVEY

This section of the report provides a brief review of several special computer projects, their activities and firms and their locations in the state. Sufficient information is provided so that educators may visit, write or call a computer firm or the site of a project.

Information provided for each includes the following:

- Name of firm, brand, or project
- Contact person's name, address, and telephone number
- Project description
- Placement and use of computers and software
- Future plans
- Student gains/results of project
- Other comments

The projects and firms described in this section include:

- Computer Curriculum Corporation
- Education Systems Corporation
- Governor's Remediation Initiative
- IBM (Clemson University, Writing to Read Projects, and Distance Interactive Learning: Spanish)
- Prescription Learning
- South Carolina Occupational Information System (SCOIS)
- WICAT

COMPUTER FIRM BRAND/PROJECT: Computer Curriculum Corporation (CCC)

CONTACT PERSON: Nancy Taylor
Communications Administrator

ADDRESS: One Parkway Center
1850 Parkway Place
Suite 215
Marietta, GA 30067

TELEPHONE: 404/421-0755 or 800/334-6343

PERSON SUPPLYING INFORMATION: Thomas F. Foley
Regional Vice President-Marketing

A. PRODUCT DESCRIPTION

CCC, the most successful company providing integrated hardware/software learning systems.

- Computer Curriculum Corporation's computer-based math, reading, and language arts courses have produced achievement gains. Low achievers often double their achievement rates.
- About 2,500 schools according to CCC now use CCC's learning systems — more than the total number of schools using other integrated systems. (Integrated systems provide hardware and software combined into one product.)
- The U.S. Department of Education has granted "Exemplary Project" awards for outstanding achievement growth to six schools using CCC systems.
- Students get individualized instruction not possible in the classroom. A powerful computer continually adjusts instruction to each student's performance. Detailed reports help teachers keep track of student's progress.
- The courses span the curriculum, including reading, math, language arts, computer science — even literacy skills for adults. CCC courses offer thousands of exercises and cover a wide range of grade levels. For example, a student could take CCC's new Math Concepts and Skills course every school day from kindergarten through the eighth grade.
- New courses emphasize higher level thinking skills. Three recent CCC courses use the color graphics and interactive tutorial instruction to encourage thinking skills while developing math, reading, and writing proficiencies.

B. PLACEMENT AND USE OF COMPUTERS AND SOFTWARE

Equipment Placed by School, Subject and Grade

School District	School	Subject Area(s) Emphasized	Equipment Model	Equipment Quantity
Edgefield		Reading and Math	CCC LS	40
Darlington		Reading, Math, and Language Arts	CCC LS	28
Elloree		Reading and Math	CCC LS	6
Spartanburg		Chapter 1	CCC LS	43
Georgetown		Chapter 1	CCC LS	100
Aiken		EIA	CCC LS	276
Kingstree		EIA	CCC LS	32
Charleston	Burke	EIA	CCC LS	4
Clinton		EIA	CCC LS	6
Timmonsville		EIA	CCC LS	6
Lake City		EIA	CCC LS	5

C. FUTURE PLANS

Computer Curriculum Corporation is releasing Reading Readiness, Initial Reading, ESL, a middle science program called Science Discovery, an Elementary Science Applications, and an adult reading program called The Reading Network. All new courses emphasize higher level thinking skills.

D. STUDENTS GAINS/RESULTS OF PROJECT

- A JTPA project in Pensacola, Florida, rescues potential dropouts with a program focused on CCC basic skill instruction. Operated by the School District of Escambia County, the project reduced the dropout rate from 39% to 2% in the first year. Truancy and discipline incidents were also sharply reduced.
- In Maryland, Calvert County Schools use CCC systems to serve 5,000 students every d[illegible] A recent study conducted by the University of Maryland shows that students gained 20% in math achievement and 11% in reading during a three-year pear. The district's state achievement ranking rose from 8th to 3rd during this same period.
- In South Carolina, Spartanburg School District is one of 15 school districts using CCC systems to meet landmark state school reform legislation requirements. Students who had performed below the 50th percentile averaged a month of achievement for every hour of CCC instruction.
- In Texas, a CCC project serving nonpublic and public school Chapter I students in Forth Worth received an "Exemplary Project" award from the U.S. Department of Education. Five other CCC projects have received similar awards.
- In Kentucky, Jefferson County Schools use the CCC system in 13 open-entry adult learning centers. A high percentage of these adults average two months of achievement for every hour spent on the computer.
- The Federal Bureau of Prisons has expanded its use of CCC systems from two to 21 of its correctional institutions. The Bureau cites the system's ability to motivate learners and to produce rapid gains.
- In Chicago, Williams Elementary School gives students CAI by telephone using CCC's DIAL-A-DRILL courses. A CCC computer calls students at home and presents exercises by computer voice. The students uses the telephone keypad to respond and gets immediate verbal feedback from the computer. Former low achievers progressed a full grade level after using the program for eight months.

E. OTHER COMMENTS

CCC is headquartered in Palo Alto, California, with offices in Texas, Illinois, Georgia, and Tennessee. The company also has distributors in New Jersey and Mississippi.

For interviews, contact
Nancy Taylor, Communications Administrator
Computer curriculum Corporation
700 Hansen Way
P.O. Box 10080
Palo Alto, CA 94304
800/227-8324 ex. 218
800/982-5851 ex. 218 (in California)

COMPUTER FIRM BRAND/PROJECT: Education Systems Corporation (ESC)

CONTACT PERSON: Miriam Simmons*

ADDRESS: Jostens Learning Corporation
6150 N. 16th Street
Phoenia, AZ 85016

TELEPHONE: 1/800/221/7927 Exchange 4413

A. PROJECT DESCRIPTION

Spartanburg District 7 was concerned about the performance of students on the CTBS and BSAP tests. In the math and reading areas, higher-order thinking skills were not being developed as fully as concrete- and computation-level skills.

The district researched Integrated Learning Systems to find a CAI/CMI curriculum which would deliver basic skills instruction as well as higher-order thinking activities. ESC was chosen for the quality of lesson development, the management system, and the on-going support and services.

The six schools qualifying for Chapter I funding are delivering their Chapter I students supplemental math and reading instruction through the ESC System. Three schools are supplementing math and reading instruction to compensatory student populations funded with state compensatory funds. All District 7 elementary schools have the ESC System.

The ESC System includes over 1,800 lessons in math, reading, and language arts, including the writing process. Each lesson uses color graphics, sound, and human speech. Lessons correlate with major basals, standardized tests, state tests, and district objectives. The students are placed into the Learning System at their instruction level, as determined by the Basic Skills Inventory. Their progress is monitored and managed by the host system. A variety of progress and mastery reports are generated by the management system.

ESC offers on going service through the Client Support Division. This team includes a lab manager and account manager to ensure smooth day-to-day operations.

The ESC Learning System is available on industry standard microcomputers, including Apple IIgs, Tandy 100, IBM PS/30, and ATT. The software storage is on an economical CD-ROM. The stations are networked together from a host unit which includes the CD-ROM and printer.

All lessons have been correlated with the BSAP objectives. Of the 126 reading objectives itemized by the S.C. Department of Education, the ESC reading curriculum provides instruction for 96.8 percent (122/126). Of the 120 math objectives, ESC provides instruction for 87.5 percent (105/120).

Charleston County — ESC Reading and Writing Curricula to serve middle school students needing supplemental instruction to maintain or reach expedited performance levels as determined by various state and district guidelines. Individualized delivery of lessons through a micro-computer network. All placement and continuous management functions are provided along with extensive staff training and support on a continuous basis, correlated with BSAP. objectives.

* Until June, 1990.

B. PLACEMENT AND USE OF COMPUTERS AND SOFTWARE

EQUIPMENT PLACED BY SCHOOL, SUBJECT AND GRADE

SCHOOL DISTRICT	SCHOOL	GRADES	SUBJECT AREAS EMPHASIZED	EQUIPMENT MODEL/QUANTITY
Spartanburg 7	Cleveland El.	2-6	Reading & Math	Tandy 1000 NW/54station
	Chapman El.	2-6	Reading & Math	Tandy 1000 NW/24station
	Park Hills El.	2-6	Reading & Math	Tandy 1000 NW/24station
	Houston El.	2-6	Reading & Math	Tandy 1000 NW/25station
	Madden El	2-6	Reading & Math	Tandy 1000 NW/33station
	M H Wright El	2-6	Reading & Math	Tandy 1000 NW/36station
	Pine Street El	2-6	Reading & Math	Tandy 1000 NW/16station
	J Boyd El	2-6	Reading & Math	Tandy 1000 NW/24station
	Todd El	2-6	Reading & Math	Tandy 1000 NW/28station
Charleston County	Schroder Middle	6-8	Reading & Writing	IBM-Network-15
	Courtenay Middle	6-8	Reading & Writing	IBM-Network-15

C. FUTURE PLANS

Contact Spartanburg #7 - Carol Ellis 803/594/4400

Contact Charleston County - Claire Eadon 803/722/8461

D. STUDENT GAINS/RESULTS OF PROJECT

Contact Spartanburg #7 - Carol Ellis
Contact Charleston County - Claire Eadon

E. OTHER COMMENTS

Training – initial and ongoing provided for lab operation and to teachers and staff as part of commitment of support and enhance existing curricula.

Future Products – AT-RISK LEARNING SYSTEM - middle - serving high and adult students in danger of dropping out our basic skills in reading and mathematics. Available June 89.

DISCOVERY LEARNING SYSTEM - Research and Writing Project using Encyclopedia Britannica's Compton's - grades 4-12. Available June 89.

COMPUTER FIRM BRAND/PROJECT: Governor's Remediation Initiative (GRI)

CONTACT PERSON: Stokes J. Smith, Jr. Systems Manager

ADDRESS: 119 Withers, Winthrop College
Rock Hill, SC 29733

TELEPHONE: 803/323-2120

A. PROJECT DESCRIPTION

The Governor's Remediation Initiative was founded initially by the Office of the Governor, Division of Employment and Training, in 1983. The overall objective of the project was to develop and implement a remediation system to be used by high schools in the state of South Carolina. The system is based upon reading and mathematics curricula that have been correlated with the BSAP objectives for the state. The instructional setting is competency-based, diagnostic and prescriptive, individualized, and measurable.

Each lab contains at least four computers, with one of the four computers set up to communicate electronically with a VAX at Winthrop College. Teachers work with individuals and small groups while managing all learners' progress.

B. PLACEMENT AND USE OF COMPUTERS AND SOFTWARE

Currently, there are 112 GRI remedial math labs and 88 remedial reading labs in 112 high schools. All labs are intended to serve students in grades 9-12. Participating South Carolina high schools include the following.

A.C. Flora High
Aiken High
Airport High
Allendale-Fairfax High
Andrews High
Barnwell High
Battery Creek High
Beaufort High
Berea High
Berkeley High
Bishopville High
Blackville-Hilda High
Boiling Springs High
Britton's Neck High
Broome High
C.A. Johnson High
C.E. Murray High
Cainhoy High
Calhoun County High
Camden High
Carolina High
Chapin High
Cheraw High
Cherokee High
Chester High
Chesterfield High
Choppee High
Clinton High
Clover High
Columbia High
Conway High
Crescent High
Cross High
Dillon High
Dreher High
Easley High
Eau Claire High
Elloree High
Estill High
Fairfield Co. Voc. Center
Furman High
Gaffney High
Georgetown
Gilbert High
Great Falls High
Greenville High
Greenwood High
Harleyville-Ridgeville High
Hartsville High
Hemingway High
Hillcrest High (Dalzell)
Holly Hill-Roberts High
Irmo High
James F. Byrnes High
Kingstree High
Lake View High
Lamar High
Lancaster High
Lewisville High
Lexington High
Loris High
Lower Richland High
Manning High
Marion High
Mayewood High
Mayo High
McBee High
Middleton High
Midland Valley High
Mount Pleasant High
Mullins High
Newberry High
Ninety Six High
North Augusta High
North Central High
North Myrtle Beach High
Northwestern High
Oconee Voc. Center
Orangeburg-Wilkinson High
Pelion High
Pendleton High
Pleasant Hill High
Ridge Spring-Monetta High
Rock Hill High
Ruffin High
Scott's Branch High
Silver Bluff High
Socastee High
South Aiken High
South Florence High
Southside High
Spartanburg High
Spring Valley High
St. George High
St. John's High (Charleston)
St. John's High (Darlington)
Strom Thurmond High
Summerville High
Sumter High
Sumter High Annex
Terrell's Bay High
Traveler's Rest High
W.J. Keenan High
Wade Hampton High
Wagener-Salley High
Walterboro High
West Florence High
Williamsburg-Blakeley High
Williston-Elko High
Wilson High
Winnsboro High
Woodmont High

C. FUTURE PLANS

Objectives of this project include placing math and reading labs in school districts where academic and economic need is shown, as well as addressing the adult illiteracy problem.

D. STUDENT GAINS/RESULTS OF PROJECT

The 1986-87 program year results indicated overall NCE gains of 2.65 in math labs. Reading labs indicated inconsistent gains last year, but are operating under expanded curriculum this year.

E. OTHER COMMENTS

- Teacher training is a major component of the Governor's Remediation Initiative. Approximately 360 teachers have been trained in the use of microcomputers for instructional management, instructional delivery, and mainframe communications.
- A major emphasis currently underway in 15 high schools is the use of a classroom management system and test banks for remedial mathematics.
- Approximately 800 pieces of software were evaluated in 1986-87. These evaluations have been published in six volumes--two math, two English, one reading, and one critical thinking and reasoning.

COMPUTER FIRM BRAND/PROJECT: IBM Distance Interactive Learning: Spanish (DIL:S)

CONTACT PERSON: Al Woodham

ADDRESS: IBM Corporation
1333 Main Street
Columbia, SC 29201

TELEPHONE: 803/748-5248

A. PROJECT DESCRIPTION

Distance Interactive Learning: Spanish is an integrated package of video lessons, computers with speech capabilities, and cooperative learning techniques designed to deliver a beginning Spanish course. This systematic approach to learning Spanish meets two of education's critical needs: equity and access.

The DIL:S system provides quality instruction to all students in spite of a shortage of certified Spanish teachers. The system requires a classroom teacher to direct the lesson plans and manage the activities. The program provides video instruction to the teacher as well as the student. Both the teacher and the student acquire proficiency in the language by the end of the course.

The video lessons called "Se Habla Espanol" emphasize teaching the student a basic speaking proficiency level in Spanish. Listening, writing, and reading skills are included in the program. The course also gives an awareness of the Spanish people, their culture, and their contributions to world civilization. Its effective use of technology increases intercultural relationships between students and other cultures. This well-coordinated program enriches Spanish language instruction.

The DIL:S system includes content delivery through 69 video tapes containing lessons presented by television teachers who are native Spanish speakers. Student interaction with a computer network is a vital part of the DIL:S system. The computer activities support the video lessons with oral practice in pronunciation as well as written exercises. An array of printed learning materials also are a part of the DIL:S program.

Utah initially developed the Distance Interactive Learning: Spanish program for students in remote areas. Now, however, students in urban, suburban, and rural areas are learning Spanish through this program.

B. PLACEMENT AND USE OF COMPUTERS AND SOFTWARE

School District	School
Richland 1	Sanders Middle
Orangeburg 5	Orangeburg-Wilkinson High
Barnwell 19	Blackville Middle

C. FUTURE PLANS

Expansion plans call for installations of new DIL:S labs in all South Carolina middle schools and high schools as a credit or non-credit course.

D. STUDENT GAINS/RESULTS OF PROJECT

This is the first year for DIL:S in South Carolina; therefore, results are not available at this time. The Atlanta, Georgia Public School System is a user of this program and offers these findings:

Atlanta Public Schools successfully uses the DIL:S program with 4500 sixth and seventh graders. Before initiating this instructional program, Atlanta had only 285 middle school students enrolled in Spanish. In September 1988, eighth graders enter the program, increasing the number to 7000 students. Science, social studies, and English teachers in Atlanta manage this integrated system.

The course design meets the requirements for the Carnegie units required for college credit. During the first year, tests were given to compare those students in traditional Spanish courses and those in the DIL:S courses. The results show the DIL:S and traditional Spanish students are equally prepared in reading and writing. The DIL:S students, however, are ahead in conversational Spanish.

Testing continues in the 1988-89 school year. Test results from the total DIL:S system, including the new writing component, will be available at the end of this instructional year.

Observations by educators and parents in Atlanta document the improvement of self confidence shown by the DIL:S students. Teachers noted that as the Spanish conversation level increased, students showed a marked improvement in English. On field trips to Mexico and Spain, students communicated well with the native population.

Teachers, who were initially concerned about teaching the language they didn't speak, enjoyed the process when the video and computer instruction began. Students and teachers in the DIL:S system developed proficiency in Spanish at a similar rate. Several teachers in the program are in the process of doing additional study to become certified Spanish teachers.

The high school districts using the DIL:S program are able to add more advanced courses to their curriculum. Administrators in three districts describe their foreign language programs as being revitalized.

E. OTHER COMMENTS

IBM and DOE (Department of Education) have entered into a partnership which will greatly enhance the opportunity for the South Carolina Public Schools to participate in this program. Call Al Woodham at 748-5248 for details.

COMPUTER FIRM BRAND/PROJECT:	IBM "Writing to Read"
CONTACT PERSON:	Rick Young
ADDRESS:	1333 Main Street Columbia, SC 29201
TELEPHONE:	803/748-5370

B. PLACEMENT AND USE OF COMPUTERS AND SOFTWARE

School District	School
Aiken	Busbee Elementary
Anderson 1	All Elementary Schools
Anderson 3	Iva Elementary
Anderson 5	Whitehall Elementary
Calhoun	Bethlehem Elementary Guinyard Elementary St. John Elementary
Charleston	James B. Edwards Elementary
Darlington	All Elementary Schools
Dillon	Lake View Elementary
Dorchester 4	St. George Elementary
Greenville	Bakers Chapel Elementary Blythe Elementary Brushy Creek Elementary East Greer Elementary Mauldin Elementary Westcliff Elementary Wrenn Elementary
Horry	All Elementary Schools
Kershaw	Camden Primary
Orangeburg 3	All Elementary
Marion 2	Nichols Elementary
Orangeburg 5	All Elementary School
Orangeburg 7	Elloree Elementary
Richland 1	Arden Elementary Crane Creek Elementary
Richland 2	All Elementary Schools
Spartanburg	S.C. School for Deaf and Blind
Union	Monarch Elementary

C. FUTURE PLANS

Expansion plans call for installation and support of new labs, as well development of a "Writing to Read" follow-up Curriculum. Using technology to extend the writing process into all curriculum areas and grade levels is currently being implemented in a number of school districts, including Orangeburg 5, Anderson 3, Richland 2 and others.

D. STUDENT GAINS/RESULTS OF PROJECT

Substantial student gains have been documented by several South Carolina districts including Richland 1, Richland 2, Orangeburg 5, and Aiken, as well as other districts across the country.

E. OTHER COMMENTS

IBM "Writing to Read" works! Quality training and on-going support are provided by IBM.

COMPUTER FIRM BRAND/PROJECT:	IBM Classroom Based "Teaching and Learning with Computer"
CONTACT PERSON:	Rick Young
ADDRESS:	1333 Main Street Columbia, SC 29201
TELEPHONE:	803/748-5370

A. PROJECT DESCRIPTION

IBM "Teaching and Learning with Computers" (TLC) combines the integration of networked computers into the classroom with quality training on IBM basic skills courseware, word processing software and classroom management strategies. TLC complements the existing instructional program. Writing across the curriculum is highlighted in this approach.

B. PLACEMENT AND USE OF COMPUTERS AND SOFTWARE

Computers are distributed in the classroom using a ratio of 1:5. Installed sites include:

School District	School
Orangeburg 5	Elementary and Middle Schools
Richland 2	Keels Elementary
Greenville	Crestview Elementary Morton Elementary

C. FUTURE PLANS

Development of additional offerings for TLC include expanding grade levels to include 1-8, additional content areas (math and science) and instructional management tailored to individual teaching styles.

D. STUDENT GAINS/RESULTS OF PROJECT

Districts reporting gains in BSAP performance attribute them not only to technology, but to the restructuring of the classroom.

E. OTHER COMMENTS

To ensure success of the program, districts should commit to teacher in-service days. Training and support is provided by IBM Education Consultants.

COMPUTER FIRM BRAND/PROJECT:	Prescription Learning	
CONTACT PERSON:	Jane Croxton	Ms. Miriam Simmons
ADDRESS:	125 Fox Hill Place Lexington, SC 29072	1822 Townes Court Rock Hill, SC 29730
TELEPHONE:	803/356-0771	803/366-8250
PERSON SUPPLYING INFORMATION:	Ms. Martha Eisele, Marketing Director	
ADDRESS:	6150 North 16th Street Phoenix, AZ 85012	
TELEPHONE:	602/422-4339	

A. PROJECT DESCRIPTION

Prescription Learning, a Jostens Company, has been working with school districts across the United States for over 20 years. The company's products are designed to provide educators with instructional programs for use with students ranging in age from preschool through adult and having diverse educational needs.

Prescription Learning's language arts and mathematics laboratories and Take-Home Computer Programs utilize Apple IIe computers along with Jostens Ufonic Voice Devices focusing on providing basic skills instruction to students in grades K-12, and featuring a computer based-curriculum that is driven by a networked management system. The management system maintains individualized learning plans for each laboratory student, and instructional courseware lessons are downloaded from a fileserver to provide students with daily computer assignments. Detailed student prescriptions guide students to complete off-computer reinforcement lessons and work with the teacher and/or small groups of students for skill an concept introduction and problem-solving sessions. All necessary software, courseware, consumable and nonconsumable and teacher materials complete each program's configuration.

The computer lessons utilize digitized speech, high resolution graphics and present skills in sequential format. Students are consistently assess as they work, so monitoring of progress is continually updated. Young students are tested using laserdisk assessment since most primary skills require accompanying, branched verbal directions.

Prescription Learning has also developed a parental involvement program that provides families with opportunities to use computers to learn at home. Various modules available in the Take-Home Computer Program have been expanded to include home-based activities for early childhood, primary, intermediate and junior high school students, and adults requiring literacy, basic education or GED preparation.

B. PLACEMENT AND USE OF COMPUTERS AND SOFTWARE

Prescription Learning currently (as of May, 1989) provides programs and services to 24 school districts in South Carolina, and operates 147 learning laboratories or parental involvement programs at local sites. During the past year, the Take-Home Computer Program has become increasingly more popular, and it is anticipated that a number of sites will expect to install "Prescription Learning's new IBM-Novell networked laboratory product.

The following districts and schools are presently using Prescription Learning's programs and accompanying services.

School District	Schools
Colleton (10)	Colleton Elementary
	Ivenia Elementary
	Colleton Middle School, Campus A
	Colleton Middle School, Campus B
	Smoaks Middle School
	Hampton Street Elementary
	Jonesville Elementary
	Cottageville Elementary
	Belles Elementary
	Belles Elementary II
Sumter #2 (3)	Mayewood High School (2)
	Hillcrest High School
Beaufort (4)	Davis Elementary
	St. Helena Elementary
	Beaufort Elementary
	Lady's Island Elementary
Bamberg (3)	Denmark--Olar Middle School (2)
	Denmark--Olar High School
Calhoun (25)	John Ford Middle School
	Guinyard Elementary School (18)
	St. John Elementary (5)
	Bethlehem Elementary
Clarendon (1)	Gamble Elementary
Lee	Bishopville Middle School
	Lower Lee Primary
	West Lee Primary
	Bishopville Elementary
	Fleming Middle School
	Mt. Pleasant High School
Sumter #17 (5)	Millwood Elementary
	Lemira Elementary
	Willow Drive Elementary
	Crosswell Drive Elementary
	Sumter High School
Lexington #1 (8)	Lexington Elementary
	Lexington Intermediate
	Pelion Elementary
	Oak Grove Elementary
	Red Bank Elementary
	Gilbert Elementary
	Lexington Middle School
	Chapin High School

School District	Schools
Rock Hill (5)	Rock Hill High School
	N. Western High School
	Castle Heights Junior School
	Rawlinson Road Junior High
	Sullivan Junior High
Jasper (1)	Ridgeland Middle School
Berkeley (12)	St. Stephen Middle School (2)
	R.A. Ready Intermediate
	Cross Elementary
	Cainhoy Elementary
	J.K. Gourdin Elementary
	Boulder Bluff Elementary
	Bonner Elementary
	College Park Elementary
	Sandridge Elementary
	Whitesville Elementary
	Berkeley Elementary
Edgefield(5)	Johnston Primary
	W.E. Parker Elementary
	Merriwether Elementary
	Douglas Elementary
	Johnston Elementary
Dillon (9)	Gordon Elementary (9)
Kershaw (11)	Lugoff Elementary
	Antioch Elementary
	Baron-Dekalb Elementary
	Bethune Elementary
	Mt. Pisgah Elementary
	Camden Elementary
	Camden Primary
	Midway Elementary
	Blaney Elementary
	Pine Tree Elementary
	Lugoff Middle School
Darlington (12)	Cain Elementary
	Hartsville Junior High
	B.A. Gary Middle School
	Mayo High School
	Hartsville Senior High
	Lamar Elementary
	N. Hartsville Elementary
	Spaulding Junior High
	Washington Street Elementary
	St. Johns High School
	Brunson Dargan Junior High
	St. David's Academy

School District	Schools
Greenville	Greenville High
	Beck Middle
	Lakeview Middle
	Parker Middle
	Monaview Elementary
	Alexander Elementary
Oconee (11)	West Oak High School
	Gignilliat Park
	South Pine Elementary (2)
	Westminster School
	Ravenal Elementary
	Northside Elementary
	Utica Elementary (2)
	Walhalla Middle and Senior High
	Oakway Elementary

School District	Schools
Richland #2 (1)	Richland
Lexington #5	Dutch Fork Elementary
Mullins (3)	Palmetto School
	Palmetto Elementary (2)
Marion (2)	Marion Elementary
Hampton #2 (2)	Estill Middle School (2)
York #3 (1)	Rock Hill

Prescription Learning programs are also operating in more than 95 Governor's Remediation Sites (for reading instruction).

C. FUTURE PLANS

In the fall of 1989, Prescription Learning plans to introduce an all-compatible IBM product to parallel its already established series of Apple applications. The IBM technology will extend throughout the laboratory configurations and Take-home Computer programs as well. Fall of 1989 will also incorporate Novell networking in IBM configurations, allowing Prescription Learning's products to expand its products by using additional technology.

Prescription Learning is also involved in the ongoing development of a "process writing" emphasis within the overall language arts area. Extensive research has contributed to the belief that reading and writing is best approached in a "whole language" environment, encouraging students to see and experience the relationship among listening, thinking, reading, writing and communicating in spoken language.

Fall of 1989 will result in the delivery of Prescription Learning's new Early Childhood program, which is based upon the Lincoln (Nebraska) preschool Project and provides a curriculum for 3-5 year old children. The program incorporates a wide range of developmentally appropriate activities centered on speech and language, social/emotional, cognitive, motor and self-help skills. A parental involvement component assures that early learning activities are easily reinforced in the home setting.

Parental involvement has always been a developmental focal point for Prescription Learning. For over ten years, school districts using Prescription Learning's parent involvement programs have documented significant and positive results. Today, all Chapter and special programs (such as "Even Start") mandate parental involvement as a criterion for evaluation. Parent programs which extend into the local community (agencies as well as private businesses) are recognized as especially successful. Prescription Learning is in the process of expanding and enhancing its current parental involvement programs so that it can be specifically tailored to meet unique district, local school and community needs.

D. STUDENT GAINS/RESULTS OF PROJECT

Specific achievement gains accomplished per Prescription Learning laboratory in South Carolina may be obtained by request and may be provided based upon requested criteria.

Prescription Learning has established documentation based upon evaluations conducted nationwide. The following information illustrates statistics collected during the 1987-88 school year:

ELEMENTARY SCHOOL APPLICATIONS:

- Reading mastery increased 25%
- Writing mastery increased 29%
- Mathematics mastery increased 15%

JUNIOR HIGH SCHOOL APPLICATIONS:

- Reading mastery increased 10.1 points
- Mathematics mastery increased 20.3 points

HIGH SCHOOL APPLICATIONS:

- Reading mastery increased 2 or more grade levels

TAKE-HOME COMPUTER PROGRAM APPLICATIONS:

- Reading mastery increased 1.5 years per 6 months involvement
- Mathematics mastery increased 1.8 years per 6 months involvement

The above-referenced gains reflect average growth among programs meeting similar criteria for evaluation. Prescription Learning's programs are uniquely tailored to meet a specific school's particular parameters. Therefore, programs vary in terms of attendance frequency, evaluation criteria, degree of parental involvement and so on. The most meaningful assessment information is obtained once a program is established according to its own design and evaluated over short- and long-range time periods against expectations and district-directed objectives.

E. OTHER COMMENTS

Prescription Learning provides a full range of consulting services as well as technical maintenance of all hardware and equipment. When a program is in its beginning stages, Prescription Learning's support staff works with the school in determining student selection and scheduling criteria.

Before the programs begins, assigned staff are fully inserviced in the use of all laboratory or program components. During the school year, Prescription Learning's educational consultant visits each laboratory twice each month to continue training or assist with management, operation and instructional techniques.

Prescription Learning is also responsible for making sure that all hardware, equipment and other materials are in consistent working order. A technical specialist visits every laboratory twice each month to repair, replace or replenish equipment or supplies to assure that the program continues at full capacity.

Prescription Learning is a Jostens company, and in the spring of 1989, both Prescription Learning and Education Systems Corporation will merge to provide educators with more products and more services aligned with the common goal of ensuring that every child--no matter his or her circumstances or abilities--can have the opportunity to succeed. Together, Prescription Learning and Education Systems Corporation will maintain a joint commitment to quality education ... exemplified by reliable customer support.

COMPUTER FIRM BRAND/PROJECT:	South Carolina Occupational Information System (SCOIS)
CONTACT PERSON:	Carol J. Kososki SCOICC Director
ADDRESS:	Post Office Box 995 Columbia, SC 29202
TELEPHONE:	803/737-2733
PERSON SUPPLYING INFORMATION:	Angeleen Hunter

A. PROJECT DESCRIPTION

SCOIS is a computer information system delivering up-to-date career, education and occupational information. SCOIS provides students, adults, teachers, and counselors with the information necessary to explore and plan for careers and to choose jobs in a logical and systematic way.

SCOIS is a telephone dial-up system accessing a Prime mini-computer through computer terminal teleprinters or microcomputers with modems.

SCOIS is operational throughout the State, with 367 sites having access to the system.

B. PLACEMENT AND USE OF COMPUTERS AND SOFTWARE

SCOIS locations:

189	High Schools
54	Vocational Education Centers
41	Middle Schools
16	Technical Schools
12	Colleges/Universities
11	Community-Based Organizations
6	Job Service Offices
7	Public Libraries
15	Vocational Rehabilitation Centers
16	Others
367	Total Sites

SCOIS uses Digital Decwriter and Texas Instruments computer terminals. Approximately 100 SCOIS users access the system through their own personal computers, primarily Apple, IBM, and Radio Shack. SCOIS is generally located in the guidance department, counseling center or media center.

C. FUTURE PLANS

Military File will be expanded to include ASUAB scores. Exploring possibility of occupational search on basis of Holland SDS scores.

Emphasis on recapturing, high schools who terminated SCOIS because of funding problems.

D. STUDENT GAINS/RESULTS OF PROJECT

An average of 4,000 accesses to SCOIS are recorded each month. Students have a better understanding of careers, job opportunities, and educational training options as a result of using SCOIS.

E. OTHER COMMENTS

SCOIS User Services staff maintain SCOIS-owned computer terminals and provide training to counselors, teachers, librarians, students, etc. The annual user fee for a SCOIS-owned computer terminal is $795. Users who provide their own equipment pay $495 a year. SCOIS now offers a microcomputer software package: Resume Writer and Application Maker. SCOIS computer information is supplemented by the use of printed materials and videos. For demonstrations or conference presentations, contact Carol J. Kososki, SCOICC Director, at 803/737-2733.

COMPUTER BRAND/PROJECT:	WICAT Systems Represented in South Carolina by Educational Solutions
CONTACT PERSON:	Judy Ethridge
ADDRESS:	P.O. Box 3000 Suite 290 Taylors, SC 29687
TELEPHONE:	803/292-5515
PERSON SUPPLYING INFORMATION:	Judy Ethridge

A. PROJECT DESCRIPTION

Over the past two decades, WICAT has been involved with developing computer-assisted teaching programs that consistently produce outstanding results. AS professional educators, WICAT designers know educating students does not mean simply arming them with facts. Students must be able to determine whether something really is a fact. They must know how facts can be used. And they must be able to operate in those realms where there are no facts at all. In short, students must learn how to think. For this reason, this courseware includes various exercises designed to develop critical thinking skills. As a result, students acquire more than facts they may forget. They develop a skill they'll have for life: the ability to think.

With over 2,000 hours of instruction, WICAT courseware spans virtually every subject in kindergarten through 12 and includes a GED component. From student placement to providing extensive reports on performance, WICAT offers a totally managed system. Before students begin a curriculum, our computer adaptive testing can help determine their skills in the subject and place them at an appropriate level of difficulty. As each student progresses, the WICAT system issues regular reports that include measurements of the lesson's difficulty, the student's time on the task, the number of times the student needed to master the activity, the number of activities attempted and/or mastered compared to the class, even the student's class standing.

WICAT's courseware has been correlated to both BSAP and CTBS and a trained professional will help your district coordinate its objectives to the WICAT courseware. A learning Improvement Plan specific to the school and district will be designed that will provide goals and objectives using the WICAT curriculum. WICAT is committed to goals of 30 - 50% learner improvement and 200% customer satisfaction. The Vero Beach, Florida At-risk program using WICAT courseware is attracting nationwide attention for its success rate. Chapter I, At-risk, Dropout prevention, GED and Mainstream are all programs that are successfully using WICAT courseware.

B. PLACEMENT AND USE OF COMPUTERS AND SOFTWARE

School District	School
Greenville County	Blythe Elementary East Greer Elementary Hughes Middle
Greenwood District 50	Southside Junior High
Lexington District 1	Gilbert High School Lexington High Pelion High
Lexington District 2	Cyril B. Busbee Middle R. H. Fulmer Middle Northside Middle Pine Ridge Middle
Pickens	McKissick Elementary
Sumter District 2	Cherryvale Elementary R. E. Davis Elementary Delaine Elementary High Hills Elementary Manchester Elementary Mayesville Elementary Oakland Elementary Rafting Creek Elementary St. John Elementary Shaw Heights Elementary

C. FUTURE PLANS

WICAT is continually updating courseware and these updates are provided to the school district at no additional cost. There are several new courses in development, one of which is a remedial reading program for adult non-readers.

D. STUDENT GAINS/RESULT OF PROJECT

WICAT is committed to a company goal of 30-50% learner improvement and is achieving this in almost all of its installations. Test results from Sumter County District 2 indicate gains in NCE"s and copies of this report are available from the office of Educational Solutions. McKissick Elementary in Pickens County has experienced large gains in the number of students meeting standard on BSAP after just one year on the WICAT system. Again, these results are available through Educational Solutions.

E. OTHER COMMENTS

- TRAINING COMPONENT — WICAT/Educational Solutions provide training for lab managers, teachers and district personnel who will be involved with the WICAT program.
- MAINTENANCE — WICAT provides a 1-800 customer service hotline for any information. A service technician is also available to provide full, on-site service with a 24-hour response time.
- $ VALUE OF PLACEMENT — Available upon request from Educational Solutions.
- NAME OF PERSON TO CONTACT FOR DEMONSTRATION, CONFERENCE, PRESENTATION: Judy Ethridge, 803-271-3808.
- EVALUATION OF SOFTWARE COMPONENT — WICAT is correlated to both BSAP and CTBS as well as many leading textbooks.